

American Pancreatic Association

International Association of Pancreatology

# 2012 Joint Meeting

October 31 – November 3, 2012



**APA**

AMERICAN PANCREATIC  
ASSOCIATION

**iap**

international association of  
**pancreatology**  
*investigate . innovate . inspire*

Eden Roc Hotel • Miami, FL

## **ACKNOWLEDGEMENT OF SUPPORT**

The American Pancreatic Association & International Association of Pancreatology would like to extend a special thank you to the following organizations for their support of this meeting through educational grants:

### **PLATINUM SUPPORTERS**

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ChiRhoClin, Inc



### **GOLD SUPPORTERS**

Aptalis  
Hirshberg Foundation for Pancreatic Cancer Research  
University of Minnesota Medical Center, Fairview &  
University of Minnesota Amplatz Children's Hospital

### **SILVER SUPPORTERS**

Boston Scientific  
University of Minnesota Department of Surgery

### **BRONZE SUPPORTERS**

Cook Endoscopy  
Digestive Care  
National Pancreas Foundation  
Vay Liang W. Go, Pancreas Journal

The American Pancreatic Association & International Association of Pancreatology would like to extend a special thank you to UMMC-Fairview & University of Minnesota Amplatz Children's hospital for their in-kind support.

***Please visit our supporters' booths in the  
Ocean Tower II Foyer.***

**2013 Meeting:  
CHICAGO**

## MESSAGE FROM THE PRESIDENTS

Welcome to Miami! On behalf of both of our boards, we are thrilled to welcome you to our joint meeting in sunny Miami. This promises to be a very exciting meeting. We received over 330 abstracts from 28 different countries! We have more countries represented than ever before, with many more from Asia and Eastern Europe than at a typical APA meeting. Our meeting registration seems to have a similar trend. We are on track to have over 500 participants at the meeting and again, are pleased by the diversity of the attendees.



Hopefully you will find the program as exciting as we do. We are happy to host the pre-meeting symposium, APA/IAP Evidence-based Guidelines for the Management of Acute Pancreatitis, which will serve to update the existing 2002 IAP Guidelines. A special thanks to the steering committee & all those working on these guidelines. Additionally, we have several great mini-symposium, on topics such as Pancreatic Cancer Immune Therapy, Imaging Techniques, and Stem/Stellate Cells.



Thank you to our respective board members, the program planning committee members and a special thank you to Erin Brudvik for her working in organizing the meeting. Now, let's have a great meeting!

Rodger A. Liddle, M.D.  
President, APA  
Professor of Medicine  
Department of Medicine  
Duke University Medical Center

Ashok K. Saluja, PhD  
President, IAP  
Secretary-Treasurer, APA  
Professor & Vice Chair, Research  
Department of Surgery  
University of Minnesota

## AMERICAN PANCREATIC ASSOCIATION

### Governing Board

Rodger Liddle, MD, President  
 Ashok Saluja, PhD, Secretary-Treasurer  
 Martin Freeman, President-Elect  
 Diane Simeone, MD, Past President  
 Stephen Pandol, MD, Councilor  
 Anirban Maitra, MD, Councilor  
 Carlos Fernandez-del Castillo, Councilor



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## INTERNATIONAL ASSOCIATION OF PANCREATOLOGY

### Governing Board

A. Saluja, Minneapolis - President  
 J. Wilson, Sydney - Secretary  
 C. Fernandez-del-Castillo, Boston - Co-Treasurer  
 W. Kimura, Yamagata - Co-Treasurer  
 M. Apte, Sydney - Editor-in-Chief, Pancreatology  
 P. Levy, Paris - President Elect  
 M. Tanaka, Fukuoka - Past President

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<http://internationalpancreatology.org/>



## PROGRAM OVERVIEW

### APA/IAP Evidence-Based Guidelines for the Management of Acute Pancreatitis

A working group has been established for this update of the 2002 IAP Guidelines. The detailed plan is available online at [www.american-pancreatic-association.org](http://www.american-pancreatic-association.org). During this session, the evidence collected will be presented & there will be time for discussion and voting on the recommendations. A paper will be published in early 2013.

**Wednesday, October 31** 8:00am to 4:30pm

### Scientific/Abstract Sessions

The scientific sessions will address basic and clinical science issues in basic science, pancreatic cancer and pancreatitis.

**Thursday, November 1** 8:00am to 10:10am  
2:00pm to 3:45pm

**Friday, November 2** 8:30am to 10:00am  
4:15pm to 6:00pm

**Saturday, November 3** 9:00am to 10:30am

### Abstract Poster Presentations

Authors will showcase their research in poster format. New this year, those abstract selected as posters of distinction will give a 3-minute talk highlighting their research during the morning poster time.

**Thursday, November 1** 7:00am to 8:30am  
12:00pm to 2:00pm

**Friday, November 2** 7:00am to 8:30am  
12:00pm to 2:00pm

**Saturday, November 3** 7:30am to 9:00am  
12:45pm to 2:00pm

### State-of-the-Art Lectures

**Thursday, November 1** 10:25am to 10:55am  
**Friday, November 2** 11:30am to 12:00pm  
3:30pm to 4:00pm

### Mini-Symposia

**Wednesday, October 31** 5:30pm to 7:00pm

**Thursday, November 1** 10:55am to 12:00pm  
4:00pm to 5:20pm  
5:20pm to 6:20pm

**Friday, November 2** 10:20am to 11:30am  
2:30pm to 3:30pm

**Saturday, November 3** 10:45am to 12:45pm

## ONSITE REGISTRATION HOURS

Location: Outside Pompeii/Promenade Ballroom

Wednesday, 10/31:	7:00 AM - 7:00 PM
Thursday, 11/1:	7:00 AM - 6:00 PM
Friday, 11/2:	7:30 AM - 6:00 PM
Saturday, 11/3:	7:30 AM - 2:00 PM

## ABSTRACT SELECTION COMMITTEE

The APA & IAP Boards wish to thank the following for reviewing the over 330 abstracts received:

Minoti Apte	Anna Gukovskaya	Miklos Sahin-Toth
Dafna Bar Sagi	Peter Hegyi	Ashok Saluja
Surindar Batra	Sunil Hingorani	Tooru Shimosegawa
Suresh Chari	Sohail Husain	Vijay Singh
Darwin Conwell	Tetsuhide Ito	Sarah Thayer
Guido Eibl	Myung-Hwan Kim	Susan Tsai
Marty Freeman	Rodger Liddle	Jennifer Tseng
Chris Forsmark	Craig Logsdon	Maria Vaccaro
Helmut Friess	Anirban Maitra	Huaizhi Wang
Toru Furukawa	Julia Mayerle	John Windsor
Pramod Garg	Steve Pandol	Kenji Yamao
Guy Groblewski	Vinciane Rebours	

## YOUNG INVESTIGATOR AWARD RECIPIENTS

Congratulations to the 2012 Young Investigator Award Winners:

Mohamad Abouzeid	Mi-Young Kim
Asfar S. Azmi	Shingo Kozono
Stefan Bouwense	Ruby B. Kwak
Sara Calabretta	Alexander Larson
Zheng Cao	Maria Luaces-Regueira
Yangchao Chen	Scott Messenger
Christopher J. Chow	Cintia Y. Morioka
Michol A. Cooper	Nagaraj Nagathihalli
Irene Epelboym	Balazs Nemeth
Xuxia Gao	Amit Raina
Arja Gerritsen	Alejandro Ropolo
Shixiang Guo	Jo Tod
Sonal Gupta	Richard T. Waldron
Phil Hart	Jing Xue
Muhammad A. Javed	Jingxuan Yang
Cali Johnson	Sergii V. Zemschov
Suhasini Joshi	Hongyan Zhu
Aleksei Kashintcev	

## LEARNING OBJECTIVES FOR APA ANNUAL MEETING

1. Use the latest evidence-based recommendations when treating patients with Acute Pancreatitis.
2. Create collaborative opportunities between clinicians and basic scientists interested in diseases of the pancreas
3. Discuss the most up-to-date research results in pancreatic diseases and their key role in defining future therapies in pancreatic diseases
4. Recognize the bench to bedside applications of basic science research such as acinar-ductal interaction, cancer metastasis, immune therapy, and stroma as a barrier for drug penetration.
5. Explain the new diagnostic modalities, imaging techniques and treatments available for pancreatic cancer.
6. Understand the role stellate cells and cancer stem cells play in the initiation and therapy of pancreatic diseases.
7. Recognize the controversies in the medical management of auto-immune pancreatitis.

## ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the American College of Surgeons and the American Pancreatic Association. The American College Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

## AMA PRA CATEGORY 1 CREDITS™

The American College of Surgeons designates this live activity for a maximum of 26.5\* *AMA PRA Category 1 Credits™*. \* Physicians should claim only the credit commensurate with the extent of their participation in the activity.

\*8 credits for the pre-meeting symposium, 18.5 credits for the annual meeting

## DISCLOSURE INFORMATION

In compliance with ACCME Accreditation Criteria, the American College of Surgeons, as the accredited provider of this activity, must ensure that anyone in a position to control the content of the educational activity has disclosed all relevant financial relationships with any commercial interest. All reported conflicts are managed by a designated official to ensure a bias-free presentation. Please see the insert to this program for the complete disclosure list.

All oral sessions (excluding the POD Highlights) are accredited. To claim your credits, please turn in your evaluation form to the registration desk.



American College of Surgeons  
Division of Education

## 2012 Vay Liang & Frisca Go Award

# HORST F. KERN, MD



Dr. Horst Kern received his MD degree in 1964 from the University of Heidelberg, where he also completed his training in anatomy/cell biology. After further research in Canada and the US, he became the head of the Institute for Clinical Cytobiology and Cytopathology in 1976 at Philipps University in Marburg, Germany. He was twice the dean of the Faculty of Medicine and a member of the Science Council of the Federal Republic of Germany. As the chairman of its scientific committee, he was involved in restructuring research institutions in East Germany during the reunion of divided Germany. He received the Distinguished Service Cross from the Federal Republic of Germany, and for the last 4 years of his career, he served as president of the Philipps University in Marburg.

After having worked on the islets of Langerhans in lower vertebrates and also on experimental diabetes mellitus, Dr. Kern switched his research interest to exocrine pancreas in 1970. After his return to Heidelberg from a stay in New York, where he joined the group of Drs. George E. Palade and James D. Jamieson at the Rockefeller University, he started his research on the hormonal regulation of the major steps in the secretory process of acinar cells by combining *in vivo* and *in vitro* techniques. The experiments included infusion of various secretagogues into the tail vein of conscious rats for periods up to 24 hours and then studying enzyme biosynthesis, intracellular transport of pulse-labeled proteins, and enzyme release *in vitro*.

All these experiments were done in close cooperation with Dr. George A. Scheele in New York. The major results revealed a hormone-specific regulation of enzyme/iso-enzyme biosynthesis and a marked acceleration of intracellular transport of secretory proteins. These results are summarized in several chapters in the Handbook of Physiology and the leading textbook *The Pancreas*.

During dose-response studies, Dr. Kern and a medical student, Michaela Lampel, observed at supramaximal doses of the cholecystokinin-analogue cerulein marked alterations in the cytoplasm of pancreatic acinar cells. Zymogen granules fused among each other in the cytoplasm and to the lateral plasma membrane inducing an interstitial edema and infiltration of inflammatory cells. This led to destruction of a large proportion of exocrine tissue and resembled microscopic changes of acute edematous pancreatitis in humans.

On the occasion of this year's APA/IAP meeting and the award bestowed to him, Dr. Kern expresses his gratitude to a large number of American pancreatologists for their help and cooperation over many years. He would like to thank George Scheele for 3 decades of friendship and stimulating cooperation, and thanks go also to Jerry Gardner, Bill Go, Howard Reber, Travis Solomon, and Andrew Warshaw for their appreciation and support.



*2012 Vay Liang & Frisca Go Award***MURRAY KORC, MD**

Dr. Murray Korc received his MD degree in 1974 from Albany Medical College in Albany, NY and completed internal medicine training there and an endocrinology fellowship at the UCSF. He also obtained postdoctoral research training at UCSF, working in the labs of Dr. John Williams, Dr. Ira Goldfine and Dr. William Rutter. He joined the Department of Medicine at the University of Arizona in Tucson in 1981, where he stayed until 1989. During the next 14 years, he was professor and chief of the Section of Endocrinology, Diabetes and Metabolism at UC-Irvine, where he was also the director of the Endocrinology Fellowship Program for 12 years, a program leader in the NCI-designated Comprehensive Cancer Center, and a vice chair for Research in the Dept of Medicine.



In 2003, Dr. Korc joined the faculty at Dartmouth Medical School as the Joseph M. Huber Professor and Chair of the Department of Medicine and Professor of Pharmacology and Toxicology. He was a member of the Norris Cotton NCI-designated Comprehensive Cancer Center and the scientific leader of its Pancreatic Cancer Group. He was the founding director of the Program for Experimental and Molecular Medicine, a multi-departmental PhD-granting training program in translational research. During his 8-year tenure as Chair of Medicine at Dartmouth Medical School, he transformed the department by creating new fellowship programs in Endocrinology and Nephrology, a research track in the residency program, a junior faculty development program, and a faculty mentorship program. In 2011, he received the inaugural Murray Korc award at Dartmouth-Hitchcock Medical Center, which is to be henceforth bestowed to a faculty member who has demonstrated outstanding support to the Internal Medicine Residency Program.

In October 2011, Dr. Korc moved to Indiana University School of Medicine to become the first Myles Brand Professor of Cancer Research and the inaugural director of their Pancreatic Cancer Signature Center. Here, he is a Professor of Medicine, and Biochemistry and Molecular Biology, and he continues to run an active research laboratory. He is also the codirector of the Tumor Microenvironment and Metastasis Program at the Indiana University Simon Cancer Center.

Dr. Korc has served on numerous editorial boards and study sections and on the scientific advisory boards of PanCAN and the Hirshberg Foundation. He is a former president of the APA and a member of the Association of American Physicians. His research has been continuously funded by the NIH since 1981 and is focused on aberrant growth factor signaling in pancreatic cancer with the goal of designing novel therapeutic strategies. He has published nearly 270 peer-reviewed manuscripts and he is internationally recognized for his contributions to our understanding of the role of growth factor receptors in pancreatic cancer, work recognized by an NIH MERIT award. He has helped train dozens of postdoctoral fellows, graduate students, residents, and fellows, many of whom are currently active in academic medicine in the United States, Europe, and Japan. He thanks his friends and colleagues at the APA for this tremendous honor, his many trainees who have helped him over the years, the American Pancreatic Association, and his wife, Antoinette Korc, MD, for her inspirational support.

*APA Distinguished Service Award***EDWARD D. PURICH, PHD**

Dr. Edward Purich was born in Western Pennsylvania in the small city of Farrell. He attended the University of Pittsburgh where he received a BS in Pharmacy, MS in Synthetic Medicinal Chemistry, and a PhD studying Beta Lactam Antibiotics. While attending the University of Pittsburgh, he received support including the Wright Foundation Scholarship, NIH, American Federation of Pharmaceutical Education, and the AFPE E. Meade Johnson Memorial Fellowship. He received numerous academic awards including the Galen Award, George Wurdack Award, and Locke Award. He taught courses in synthetic organic chemistry, pharmaceutical quantitative and qualitative chemistry, applications of computers in medical sciences, pharmacodynamics, pharmacokinetics, statistical analysis, and radiometric analysis.

Dr. Purich began his career in Industry at the Upjohn Company as Department Head of the Drug Disposition Group in the Cancer Research Group. He pioneered the development of flow limited pharmacokinetic computer modeling to accelerate the use of animal PK and PD data to expedite transition to human studies. While in industry, he was involved in the successful preparation and approval of greater than 40 NDAs and 225 ANDAs; organized and wrote significant portions of two orphan drug NDAs for Aerosol Pentamidine for HIV and Gallium Nitrate for reducing bone loss; and has been a consultant to over 122 Pharmaceutical Companies in the U.S., Europe, and Japan.

At the FDA, Dr. Purich was materially involved in formulating the Code of Federal Regulations (CFR 320 "Bioavailability/Bioequivalence Regulations"), NDA Rewrite of 1982, Control Release Regulations, Transdermal Policy, Alternate Site of Manufacture Policy, Format and Content of Biopharmaceutics and Statistics Guidelines, Analytical Validation of Method Policy, Electronic NDAs, and more than 130 other guidelines and policies. He was responsible for approving the New Drug Application as one of six signatures for NDAs, ANDAs, and Forms 5 and 6. In that capacity, he signed over 3,900 NDAs and sNDAs. For his efforts he received the FDA's Award of Merit. He was author of five books and monographs and 86 publications and presentations.

Dr. Purich has spent the last 20 years in gastroenterology concentrating on the pancreas. During this period, he founded ChiRhoClin which has developed three approved NDA's including ChiRhoStim® (Human Secretin for Injection). ChiRhoClin utilizes its resources to promote research in pancreas diseases and pancreatic cancer through development of starter grants, travel grants, and other programs for young physicians interested in pancreas research. Ed is a member of the American Pharmaceutical Association, Drug Information Association, AGA, ACG, APA and a founding member of CAPER. Dr. Purich was awarded 3 patents pertaining to diagnosis and treatments of pancreatic disease.

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APA/IAP Evidence-Based  
Guidelines for the  
**Management of  
Acute Pancreatitis**

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**STEERING COMMITTEE:**

Marc Besselink, Amsterdam  
Hjalmar van Santvoort, Utrecht  
Martin Freeman, Minneapolis  
Timothy Gardner, Lebanon  
Julia Mayerle, Greifswald  
Santhi Swaroop Vege, Rochester  
Jens Werner, Heidelberg

**7:00 - 8:00 AM**

**REGISTRATION & BREAKFAST - POMPEII BALLROOM**

**8:00 - 8:05 AM**

**WELCOME - POMPEII BALLROOM**

Ashok K. Saluja, PhD

**8:05 - 8:15 AM**

**INTRODUCTION - POMPEII BALLROOM**

Methods - Marc Besselink, MD

Process - Jens Werner, MD

**MODERATORS: JULIA MAYERLE, SANTHI SWAROOP VEGE**

**8:15 - 8:45 AM**

**DIAGNOSIS OF ACUTE PANCREATITIS & ETIOLOGY**

Review Group: George Papachristou, Pittsburgh; Vijay Singh,  
Pittsburgh; Michael Rünzi, Essen

Time Manager: Julia Mayerle, Greifswald

Speaker: Vijay Singh, MD

**8:45 - 9:05 AM****PROGNOSTICATION/PREDICTING SEVERITY**

Review Group: Bechien Wu, Los Angeles; Vikesh Singh, Baltimore; John Windsor, Auckland; Peter Banks, Boston; George Papachristou, Pittsburgh

Time Manager: Santhi Swaroop Vege, Rochester

Speaker: Bechien Wu, MD

**9:05 - 9:35 AM****IMAGING**

Review Group: Thomas Bollen, Nieuwegein; Desiree Morgan, Birmingham; Koenraad Mortelet, Boston

Time Manager: Santhi Swaroop Vege, Rochester

Speaker: Thomas Bollen, MD

**9:35 - 9:55 AM****FLUID THERAPY**

Review Group: Anubhav Mittal, Auckland; John Windsor, Auckland; Mao En-qiang, Shanghai, Timothy Gardner, Lebanon; Julia Mayerle, Greifswald

Time Manager: Santhi Swaroop Vege, Rochester

Speaker: Anubhav Mittal, MD

**9:55 - 10:10 AM****REFRESHMENTS - PROMENADE ROOM****MODERATORS: HJALMAR VAN SANTVOORT & TIM GARDNER****10:10 - 11:10 AM****INTENSIVE CARE MANAGEMENT**

Review Group: Julia Mayerle, Greifswald; Colin Johnson, Southampton; Jan de Waele, Gent

Time manager: Hjalmar van Santvoort, Utrecht

Speaker: Julia Mayerle, MD

**11:10 - 11:40 AM**

**PREVENTING INFECTIOUS COMPLICATIONS**

Review Group: Maxim Petrov, Auckland; Patchen Dellinger, Seattle; Marc Besselink; Utrecht; Markus Lerch, Greifswald

Time Manager: Tim Gardner, Lebanon

Speaker: Markus Lerch, MD

**11:40 AM - 12:30 PM**

**LUNCH - PROMENADE ROOM**

**MODERATORS: JENS WERNER & MARTIN FREEMAN**

**12:30 - 1:20 PM**

**NUTRITIONAL SUPPORT**

Review Group: Maxim Petrov, Auckland; Roland Anderson, Lund; Stephen McClave, Louisville

Time Manager: Tim Gardner, Lebanon

Speaker: Tim Gardner, MD

**1:20 - 1:50 PM**

**BILIARY TRACT MANAGEMENT IN BILIARY PANCREATITIS**

Review Group: Jimmy (Werner) Hartwig, Heidelberg; Hjalmar van Santvoort, Utrecht; Martin Freeman, Minneapolis; Marco Bruno, Rotterdam; Alejandro Oria, Buenos Aires; Peter Banks, Boston

Time Manager: Julia Mayerle, Greifswald

Speaker: Hjalmar van Santvoort, MD, PhD

**1:50 - 2:20 PM**

**INDICATION FOR INTERVENTION**

Review Group: Marc Besselink, Amsterdam; Timothy Gardner, Lebanon; Hein Gooszen, Nijmegen; Todd Baron, Rochester; Carlos Fernandez-DelCastillo, Boston

Time Manager: Jens Werner, Heidelberg

Speaker: Marc Besselink, MD, PhD

**2:20 - 2:35 PM**

**REFRESHMENTS - PROMENADE ROOM**

**MODERATORS: MARC BESSELINK & CARLOS FERNANDEZ-DEL CASTILLO****2:35 - 2:55 PM****TIMING OF INTERVENTION IN NECROTIZING PANCREATITIS**

Review Group: Peter Fagenholz, Boston; Santhi Swaroop Vege, Rochester; Marc Besselink, Amsterdam; Jens Werner, Heidelberg; Carlos Fernandez-del Castillo, Boston

Time manager: Hjalmar van Santvoort, Utrecht

Speaker: Peter Fagenholz, MD

**2:55 - 3:25 PM****INTERVENTION STRATEGY**

Review Group: Hjalmar van Santvoort, Utrecht; Carlos Fernandez-del Castillo, Boston; Todd Baron, Rochester; Karen Horvath, Seattle; Thomas Bollen, Nieuwegein; Koenraad Morteale, Boston; Jens Werner, Heidelberg

Time manager: Martin Freeman, Minneapolis

Speaker: Hjalmar van Santvoort, MD, PhD

**3:25 - 3:55 PM****TIMING OF CHOLECYSTECTOMY**

Review Group: Mark van Baal, Nijmegen; William Nealon, Nashville; Timothy Gardner, Lebanon; Julia Mayerle, Greifswald.

Time manager: Santhi Swaroop Vege, Rochester

Speaker: Julia Mayerle, MD

**3:55 - 4:25 PM****DISCUSSION & STEPS TO PUBLICATION**

Leader: Hjalmar van Santvoort, MD, PhD

**4:25 - 4:30 PM****CLOSING** - Ashok K. Saluja, PhD**End of Pre-Meeting Conference**

**Joint Meeting** of the  
American Pancreatic Association &  
International Association of Pancreatology  
**October 31 - November 3, 2012**

**7:00 AM - 7:00 PM**

**REGISTRATION - POMPEII FOYER**

**5:30 - 7:00 PM**

**HIRSHBERG FOUNDATION KEYNOTE SYMPOSIUM  
PANCREATIC CANCER IMMUNE THERAPY**

POMPEII & PROMENADE

Moderators: Rodger Liddle, MD & Ashok Saluja, PhD

**Inflammatory Networks and T Cell Immunity  
in Pancreas Cancer**

Robert Vonderheide, MD, DPhil

University of Pennsylvania School of Medicine

**Targeting eNOS in Pancreatic Cancer**

Christopher Counter, PhD

Duke University School of Medicine

**7:00 - 9:00 PM**

**PRESIDENTIAL RECEPTION**

OCEAN GARDEN

7:00 AM - 6:00 PM

REGISTRATION - POMPEII FOYER

7:00 - 8:30 AM

BREAKFAST & POSTER VIEWING

OCEAN TOWER BALLROOM I & II

7:45 - 8:30 AM

POSTER OF DISTINCTION HIGHLIGHTS

POMPEII/PROMENADE

Moderators: Anna Gukovskaya & Toru Furukawa

Please see pages 29-30 for a listing of the Posters of Distinction, each of which will give a 3 minute presentation.

8:30 - 10:10 AM

SCIENTIFIC SESSION 1: PANCREATITIS

POMPEII/PROMENADE

Moderators: Guy Groblewski & Randall Brand

Featured Speaker: Vijay Singh, MD

**Lipotoxicity Determines Outcomes of Acute Pancreatitis in Obesity**

8:45 AM **Antioxidant Therapy for Chronic Pancreatitis: Final Results of the ANTICIPATE Randomized, Controlled Trial.** AK Siriwardena, JM Mason, AJ Makin, AJ Sheen N Shah. Hepatobiliary Surgery Unit, Manchester Royal Infirmary, Manchester, UK. School of Medicine and Health, University of Durham, Durham, UK.

8:57 AM **Lessons on Aggressive Intravenous Hydration in Acute Pancreatitis: A Meta-Analysis of Clinical Trials.** R. Rahmani, S. Shamah, D. Marino, I. Mayer, S. Tenner. Division of Gastroenterology, Department of Medicine, State University of New York, Health Sciences Center, Brooklyn, NY.

9:09 AM **Validation of M-ANNHEIM Imaging Grade for Use with MRI/MRCP in Chronic Pancreatitis.** SJ Burton, V Kadiyala, SL Suleiman, LS Lee, PA Banks, DL Conwell. Center for Pancreatic Disease, Brigham and Women's Hospital, Boston MA.



- 9:21 AM **Interrelationship between Acinar Zymogen Activation, Cell Injury and Inflammation in Experimental Acute Pancreatitis.** W Halangk, T Wartmann, C De Boni, T Hoffmann, M Sendler, J Mayerle, MM Lerch. Division of Experimental Surgery, University Magdeburg, Germany; Probiodrug AG Halle, Germany; Department of Medicine A, University Greifswald, Germany.
- 9:33 AM **Performance of International Consensus Diagnostic Criteria (ICDC) for Type 1 Autoimmune Pancreatitis (AIP).** R Sah, P Hart, M Levy, N Takahashi, T Smyrk, S Chari. Div. of Gastroenterology and Hepatology, Mayo Clinic Rochester, MN.
- 9:45 AM **Pain Outcome after Pancreatic Surgery for Pain of Chronic Pancreatitis: Relation to Altered Central Pain Processing.** SAW Bouwense, UA Ali, RPG ten Broek, Y Issa, CH van Eijck, HG Gooszen, OHG Wilder-Smith, H van Goor for the Dutch Pancreatitis Study Group. Department of Surgery, Department of Operation Rooms – MiTEC - Evidenced Based Surgery, Pain and Nociception Neuroscience Research Group and Department of Anaesthesiology; Pain and Palliative Care, Radboud University Nijmegen Medical Center, the Netherlands, Department of Surgery, University Medical Center Utrecht, the Netherlands Department of Surgery Academic Medical Center, the Netherlands, Department of Surgery7, Erasmus Medical Center Rotterdam, the Netherlands.
- 9:57 AM **Loss of the Yes-Associated Protein Disrupts Pancreatic Morphogenesis and Exacerbates Exocrine Pancreatitis in Mice.** S Gupta, J-K Ryu, N Zhang, S Bang, D Pan, A Maitra. Departments of Pathology and Molecular Biology and Genetics, Johns Hopkins University, Baltimore, MD.

Thursday, 11/1

10:10 - 10:25 AM

REFRESHMENTS - PALM TERRACE &amp; SPA GARDEN

**10:25 - 10:55 AM**

**CLINICAL STATE OF THE ART LECTURE**

POMPEII/PROMENADE

Introduction: Carlos Fernandez-del Castillo

**Contemporary Management of and Future Directions in  
Neuroendocrine Tumors of the Pancreas**

Douglas B. Evans, MD

Medical College of Wisconsin

**10:55 AM - 12:00 PM**

**IMAGING TECHNIQUES IN PANCREATIC DISEASE**

POMPEII/PROMENADE

Moderators: Pramod Garg & Martin Freeman

**Perfusion CT**

Yoshihisa Tsuji, MD, PhD

Mayo Clinic, US/Kyoto University, Japan

**EUS Elastography**

Julio Iglesia-Garcia, MD

University Hospital of Santiago de Compostela, Spain

**Pancreatoscopy**

Taketo Yamaguchi, MD

Chiba Cancer Center, Japan

**12:00 - 2:00 PM**

**LUNCH & POSTER VIEWING**

OCEAN TOWER BALLROOM I & II

2:00 - 3:45 PM

**SCIENTIFIC SESSION 2: PANCREATIC CANCER**

POMPEII/PROMENADE

Moderators: Courtney Houchen &amp; Huaizhi Wang

- 2:00 PM Inhibition of Polo-Like-Kinase-1 is as Efficient for the Treatment of Pancreatic Adenocarcinoma as Treatment with Capecitabine.** S Teller, M Sendler, A Dummer, L-I Partecke, F-U Weiss, MM Lerch, J Mayerle. Department of Medicine A, Ernst-Moritz-Arndt-University, Greifswald, Germany; Department of General, Visceral, Thoracic and Vascular Surgery, Ernst-Moritz-Arndt-University, Greifswald, Germany.
- 2:12 PM Triptolide Enriches For CD133+ “Stem-Like” Tumor Initiating Cells In Pancreatic Cancer.** S Banerjee, A Nomura, N Mujumdar, V Dudeja, V Sangwan, SM Vickers, A Saluja. Division of Basic and Translational Research, Dept. Of Surgery, University of Minnesota, Minneapolis, MN.
- 2:24 PM Proteomic Analysis of Perineural Invasion in Pancreatic Adenocarcinoma Reveals Up-regulation of Neurosecretory Protein VGF in Invaded Nerves.** W Alrawashdeh, R Jones, P Cutillas, N Wijesuriya, T Crnogorac-Jurcevic. Barts Cancer Institute, Queen Mary University of London, London, UK; MSBioworks, Ann Arbor, MI, USA; Department of Pathology, Royal London Hospital, London, UK.
- 2:36 PM Antifibrotic Agent, Pirfenidone, Inhibits Pancreatic Stellate Cells and Tumor-Stromal Interaction in Pancreatic Cancer.** S Kozono, K Ohuchida, D Eguchi, K Fujiwara, M Zhao, L Cui, K Mizumoto, M Tanaka, Departments of Surgery and Oncology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan.
- 2:48 PM Acceleration of Pancreatic Cancer Development in the Conditional KrasG12D Mouse Model by a High Fat and High Calorie Diet.** A Moro, A Lugea, DW Dawson, S Pandol, A Gukovskaya, E Rozengurt, OJ Hines, VLW Go, G Eibl. UCLA Center for Excellence in Pancreatic Diseases, Department of Surgery, David Geffen School of Medicine at UCLA, Los Angeles, CA.

Thursday, 11/1

*Pancreatic Cancer session cont.*

**3:00 PM Pancreaticoduodenectomy in Patients with True Cancer Infiltration of the Portal Vein is Associated with an Unfavorable Prognosis.** CW Michalski, B Kong, M Schlitter, S Kloe, C Jager, H Friess, I Esposito, J Kleeff. Department of Surgery, Technische Universität München, Munich, Germany.

**3:12 PM mAb Das-1 is Specific for High-Risk and Malignant Intraductal Papillary Mucinous Neoplasm (IPMN).** KK Das, HD Xiao, X Geng, C Fernandez-del-Castillo, V Morales-Oyarvide, DG Forcione, BC Bounds, WR Brugge, MB Pitman, KM Das, M Mino-Kenudson. Departments of Internal Medicine, Pathology, Surgery & Division of Gastroenterology, Massachusetts General Hospital, Boston, MA, Division of Gastroenterology, UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ.

**3:24 PM The Effect of Operative Approach on Splenic Vessel Patency after Spleen and Splenic Vessel-Preserving Distal Pancreatectomy in Multi-institutional Study: Laparoscopic versus Open Approach.** YS Yoon, KH Lee, HS Han, JY Cho, DW Hwang, MJ Kang, JY Jang, SW Kim, SS Han, SJ Park. Departments of Surgery and Radiology, Seoul National University Bundang Hospital, Seoul National University College of Medicine; Departments of Surgery, Seoul National University Hospital, Seoul National University College of Medicine; Center for liver center, National Cancer Center, Korea.

**3:45 - 4:00 PM**

**REFRESHMENTS - PALM TERRACE & SPA GARDEN**

**4:00 - 5:20 PM**

**EVOLVING CONCEPTS IN CHRONIC PANCREATITIS**

POMPEII/PROMENADE

Moderators: Helmut Friess & Aida Habtezion

**New Insights into Chronic Pancreatitis**

David Whitcomb, MD, PhD

University of Pittsburgh, USA

**Medical Management of Pain**

Michelle Anderson, MD

University of Michigan, USA

**Emerging Endoscopic Treatments**

D Nageshwar Reddy, MD  
Asian Institute of Gastroenterology, India

**Enzyme Therapy**

Christopher E. Forsmark, MD  
University of Florida, USA

**Surgical Treatment**

Gregory Beilman, MD  
University of Minnesota, USA

**5:20 - 6:20 PM**

**ACINAR-DUCTAL INTERACTIONS IN PANCREATITIS**

POMPEII/PROMENADE

Moderators: Fred Gorelick & Jeremy Wilson

**Role of Pancreatic Ducts in the Pathogenesis of Pancreatitis**

Peter Hegyi, MD, PhD - University of Szeged, Hungary

**Role of Acinar Cells in Pancreatitis: Ca<sup>2+</sup> and ATP are Crucial**

Ole Petersen, CBE FRS - Cardiff University, UK

**The Compartment Problem. Where Does Trypsinogen Activation Occur in Human Pancreatitis?**

Miklos Sahin-Toth, MD, PhD - Boston University, USA

**7:00 - 10:00 PM**

**COCKTAIL RECEPTION - PALM TERRACE & SPA GARDEN**  
**AWARDS DINNER - OCEAN BALLROOM II**

**Presentation of Awards**

Hirshberg Award for Best Abstracts in Pancreatic Cancer  
National Pancreas Foundation Award for Best Abstracts in Pancreatitis  
Young Investigator Travel Awards

APA Distinguished Service Award: Edward D. Purich, PhD

Presentation of the Vay Liang & Frisca Go Award for Lifetime Achievement  
Recipients: Horst F. Kern, MD & Murray Korc, MD

**7:00 AM - 6:00 PM**

**REGISTRATION** - POMPEII FOYER

**7:00 - 8:30 AM**

**BREAKFAST & POSTER VIEWING**

OCEAN TOWER BALLROOM I & II

**7:45 - 8:30 AM**

**POSTER OF DISTINCTION HIGHLIGHTS**

POMPEII/PROMENADE

Moderators: Zoltan Rakonczay & Vikas Dudeja

Please see pages 42-43 for a listing of the Posters of Distinction, each of which will give a 3 minute presentation.

**8:30 - 10:00 AM**

**SCIENTIFIC SESSION 3: BASIC SCIENCE**

POMPEII/PROMENADE

Moderators: David Yule & Robert Sutton

**8:30 AM ERK Activation is Required for Adaptive Pancreatic Growth.** BJ Holtz, K Lodewyk, JA Williams. Departments of Molecular and Integrative Physiology and Internal Medicine, University of Michigan Ann Arbor, MI

**8:42 AM Hedgehog Signaling in Pancreatic Cancer Is Dependent on Stellate Cells in a Paracrine Fashion.** RF Hwang, T Moore, M Mertens Hattersley, M Scarpitti, B Yang, E Devereaux, V Ramachandran, T Arumugam, B Ji, CD Logsdon, JL Brown, R Godin. Department of Surgical Oncology, University of Texas M.D. Anderson Cancer Center, Houston, TX; Astra Zeneca Pharmaceuticals, Waltham MA; Department of Cancer Biology, University of Texas M.D. Anderson Cancer Center, Houston TX.

**8:54 AM Molecular Basis for the Interplay of Apoptosis and Proliferation Mediated by Bcl-xL:Bim Interactions.** M Edderkaoui, R Abrol, P Lee, WA Goddard III, SJ Pandol. Department of Veterans Affairs, CA. University of California, Los Angeles, CA. Materials and Process Simulation Center, California Institute of Technology, Pasadena, CA.

- 9:06 AM **Inhibition of Phosphatidylinositol (3,5)-bisphosphate(PI(3,5)P2) Production Reverses the Loss of Secretory Inhibition and Trypsinogen Activation During CCK-Pancreatitis.** SW Messenger, DDH. Thomas, GE Groblewski. Department of Nutritional Sciences, University of Wisconsin, Madison, WI.
- 9:18 AM **CREB Mediates Gq-Coupled Receptor Activation of Vmp1, a Switch For Autophagy In Pancreas Biology And Diseases.** A Ropolo, A Lo Re, MI Molejon, V Boggio, MI Vaccaro. Department of Pathophysiology, School of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina
- 9:30 AM **Chymotrypsin C Dependent Activation of Hereditary Pancreatitis-Associated Cationic Trypsinogen Mutants.** A Szabó and M Sahin-Tóth. Department of Molecular and Cell Biology, Boston University Medical Center, Boston, MA.
- 9:42 AM **URMC-214 Reduces Matrix Deposition and Stellate Cell Proliferation.** JH Won, Y Zhang, CD Logsdon, DI Yule Department of Pharmacology and Physiology, University of Rochester Medical School, Rochester, NY and MD Anderson Cancer Center, Houston TX.

10:00 - 10:20 AM

**REFRESHMENTS** - PALM TERRACE & SPA GARDEN

10:20 - 11:30 AM

**METASTASIS**

POMPEII/PROMENADE

Moderators: Anirban Maitra & Dafna Bar-Sagi

**TBA**

Michael Hollingsworth, PhD - University of Nebraska, USA

**Arousal of the Stroma: How Pancreatic Cancer Cells Escape**

Teresa Brentnall, MD - University of Washington, USA

**Wild-type Kras in pancreatic cancer metastasis**

Gloria Su, PhD - Columbia University, USA

**Identification of Novel Molecular Networks in Pancreatic Cancer by using High throughput Technologies**

Dimitrios Iliopoulos, PhD - UCLA, USA

**11:30 AM - 12:00 PM**

**FRANK BROOKS STATE OF THE ART LECTURE**

POMPEII/PROMENADE

Introduction: Steve Pandol, MD

**A Journey To, and With, the Stars of the Pancreas : Pivotal Roles of Pancreatic Stellate Cells in Health and Disease**

Minoti Apte, MBBS, MMedSci, PhD

University of New South Wales, Australia

**12:00 - 2:00 PM**

**LUNCH & POSTER VIEWING**

OCEAN TOWER BALLROOM I & II

**2:00 - 2:30 PM**

**APA BUSINESS MEETING**

POMPEII/PROMENADE

**President's Address**

Rodger Liddle, MD

**Report from the Secretary-Treasurer**

Ashok K. Saluja, PhD

**2:30 - 3:30 PM**

CONCURRENT SESSIONS

**SESSION 1: STROMA AS A BARRIER FOR DRUG PENETRATION**

MONA LISA BALLROOM

Moderators: Raul Urrutia & Guido Eibl

**Targeting Ras Activation for Prevention of Pancreatic Cancer**

Craig Logsdon, PhD - UT MD Anderson Cancer Center

**Oncogenic K-Ras Signaling and Pancreatic Cancer: From Biology to Therapeutics**

Dafna Bar-Sagi, PhD - NYU Langone Medical Center



**SESSION 2: CLINICAL CONTROVERSIES**

**MEDICAL MANAGEMENT OF AIP**

POMPEII/PROMENADE

Moderators: Santhi Swaroop Vege & Tooru Shimosegawa

**Case Presentation** - Phil Hart, MD - Mayo Clinic, USA

**Should All Patients with AIP Receive Maintenance Therapy to Prevent Recurrence?**

Yes - Kazuchi Okazaki, MD - Kansai Medical University, Japan

No - George Webster, BSc, MD, FRCP

University College London Hospitals, UK

**Is there a Role for Immuno-modulators in the Maintenance of Remission in AIP?**

Yes - Suresh Chari, MD - Mayo Clinic, USA

No - Myung-Hwan Kim, MD - Asan Medical Center, Korea

**3:30 - 4:00 PM**

**GEORGE E. PALADE MEMORIAL LECTURE ON CELL BIOLOGY OF THE PANCREAS**

POMPEII/PROMENADE

Introduction: Markus Lerch, MD

**The Secretary Process for Pancreatic Digestive Enzymes: from Palade to the Present**

John Williams, MD, PhD

University of Michigan, USA

**4:00 - 4:15**

**REFRESHMENTS** - PALM TERRACE & SPA GARDEN

4:15 - 6:00 PM

**SCIENTIFIC SESSION 4: PANCREATITIS**

POMPEII/PROMENADE

Moderators: Isaac Samuel & Phillippe Levy

4:15 PM

**Best of EPC 2012:**

Endoscopic Transluminal Step-up Approach Versus Surgical Step-up Approach in Patients With Infected Necrotizing Pancreatitis (TENSION): Design and Rationale of a Randomized Controlled Multicenter Trial (S van Brunschot, Netherlands)

4:27 PM

**Best of EPC 2012:**

The Effect of Pancreatitis-Inducing Factors on the Expression and Function of AQPs in a Pancreatic Ductal Cell Line (Hegyi, Hungary)

4:39 PM

**An Animal Model of Autoimmune Pancreatitis with HLA-DQ8 Transgenic Mice.** MY Kim, DH Park, JH Kim, SS Lee, DW Seo, SK Lee, MH Kim. Department of Internal Medicine, University of Ulsan College of Medicine, Asan Medical Center, Seoul, Korea, Department of Pathology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea.

4:51 PM

**Rectal NSAIDs are more Effective than Pancreatic Stents in Preventing Post-ERCP Pancreatitis among High-Risk Patients: A Systematic Review and Network Meta-Analysis.** VS Akshintala, SM Hutfless, KJ Kim, AM Lennon, PI Okolo, MK Palakurthy, AN Kalloo, MA Khashab, VK Singh. Division of Gastroenterology, Johns Hopkins Medical Institutions, Baltimore, MD; Department of Gastroenterology, Andhra Medical College, Visakhapatnam, India.

5:03 PM

**Cytosolic Cathepsin B Initiate Acinar Cell Death Through Cleavage of Bid.** H Zhu, R Talukdar, S Sundaresan, S Kumar, R Dawra, A Saluja. Division of Basic and Translational Research, Department of Surgery, University of Minnesota, Minneapolis MN.

5:15 PM **The Calcium-Activated Phosphatase Calcineurin is a Potential Drug Target for the Treatment of Biliary Pancreatitis.** KA Muili, D Wang, S Sarwar, Al Orabi, Y Luo, T Javed, SM Mahmood, S Jin, VP Singh, M Ananthanarayanan, G Perides, JA Williams, SZ Husain. Department of Pediatrics and Internal Medicine Children's Hospital of Pittsburgh of UPMC and the University of Pittsburgh School of Medicine, Pittsburgh, PA; Department of Internal Medicine Yale University School of Medicine, New Haven, CT; Department of Surgery, Tufts University Medical School, Boston, MA; Department of Molecular and Integrative Physiology, University of Michigan, Ann Arbor, MI.

5:27 PM **Elevated Acinar Cell NF- $\kappa$ B Activity Increases Pancreatitis Severity.** H Huang, Y Liu, J Daniluk, H Wang, B Ji, CD Logsdon. Departments of Cancer Biology, Pathology and Gastrointestinal Medical Oncology, University of Texas M.D. Anderson Cancer Center, Houston, TX. Department of Biochemistry and Molecular Biology, Mayo Clinic, Rochester, MN. Department of Gastroenterology, Shanghai Hospital Affiliated to Second Military Medical University, Shanghai, China.

5:39 PM **Lipolysis of Unsaturated Triglycerides Worsens Acute Pancreatitis (AP) Outcomes in a Model Mimicking Human Disease.** C Durgampudi, P Noel, R Cline, C Acharya, K Patel, D Jaligama, V Singh. Departments of Medicine, UPMC Passavant, University of Pittsburgh, PA.

## 6:00 - 6:30 PM IAP BUSINESS MEETING

POMPEII/PROMENADE

### Officer Reports

Ashok K. Saluja, PhD

Jeremy Wilson, MBBS, MD

Carlos Fernandez-del Castillo, MD

### Report from Editor of Pancreatology

Minoti Apte, MBBS, MMedSci, PhD

7:30 AM - 2:00 PM

**REGISTRATION** - POMPEII FOYER

7:30 - 9:00 AM

**BREAKFAST & POSTER VIEWING**

OCEAN TOWER BALLROOM I & II

8:15 - 9:00 AM

**POSTER OF DISTINCTION HIGHLIGHTS**

POMPEII/PROMENADE

Moderators: Jill P. Smith & Martin Fernandez-Zapico

Please see pages 55-56 for a listing of the Posters of Distinction, each of which will give a 3 minute presentation.

9:00 - 10:30 AM

**SCIENTIFIC SESSION: PANCREATIC CANCER**

MECKLENBURG CONFERENCE ROOM

Moderators: Masao Tanaka & Johanna Laukkarinen

9:00 AM

**Preoperative Biliary Drainage and Surgical Outcome After Pancreaticoduodenectomy.** FF di Mola, F Tavano, A De Bonis, T Grottola, M Tardio, MR Valvano, A Andriulli, P di Sebastiano. Department of Surgery and Unit of Gastroenterology, IRCCS, Hospital "Casa Sollievo della Sofferenza", San Giovanni Rotondo, Italy.

9:12 AM

**Usefulness of Cell Block Cytology for Preoperative Grading and Typing of IPMN.** K Shimizu, M Monzen, K Nagao, J Tahara, Y Takayama, N Oshima, T.Hatori, T Furukawa, K Shiratori. Departments of Internal Medicine; Surgery, and Surgical Pathology, School of Medicine, and Institute for Integrated Medical Sciences, Tokyo Women's Medical University, Tokyo, Japan.

9:24 AM

**WD-Repeat Containing Transcriptional Co-factors Link Obesity and Pancreatic Cancer.** O Strobel,\* C Stoy,\* J Werner,# S Herzig#. Dept. of Surgery, University Hospital Heidelberg & Joint Research Division Molecular Metabolic Control Univ. of Heidelberg, Heidelberg, Germany. \*#Equal contributions.

- 9:36 AM **High hENT1 Expression is Predictive of Response of to Adjuvant Gemcitabine for Pancreatic Ductal Adenocarcinoma Patients Randomised to Adjuvant Therapies in the ESPAC Trials.** JP Neoptolemos, TF Cox, W Greenhalf, L Garner, F Campbell, P Ghaneh, D Palmer, J Mackey, C Dervenis, A Scarpa, C Bassi, MW Büchler for the European Study Group for Pancreatic Cancer. NIHR PBRU and Cancer Research UK Centre, University of Liverpool, UK; Cross Cancer Institute, University of Alberta, Canada; Department of Surgery, Agia Olga Hospital, Athens, Greece; Departments of Surgery and Pathology, University of Verona, Italy; Department of Surgery, University of Heidelberg, Germany.
- 9:48 AM **Triptolide Induced Expression of miR204 Leads to Down-modulation of Mcl-1, Resulting in Pancreatic Cancer Cell Death.** Z Chen, V Sangwan, S Banerjee, N Mujumdar, TN MacKenzie, H. Wang, X Wu Li, S Vickers and AK Saluja. Department of Surgery, University of Minnesota, Minneapolis, MN; Hepatobiliary Surgery Institute, Southwest Hospital, Third Military Medical University, Chongqing, China.
- 10:00 AM **Interleukin-8 (IL-8) Expression is a Surrogate Marker for Effects of Gemcitabine on Pancreatic Ductal Adenocarcinoma (PDAC) Cells.** T Arumugam, T Fujii, H Haojie, RF Hwang, V Ramachandran, CD Logsdon. Dept. of Cancer Biology, Surgical Oncology, Medical Oncology, UT MD Anderson Cancer Center, Houston, TX.
- 10:12 AM **Intraductal Papillary Mucinous Neoplasms of the Pancreas with Distinct Pancreatic Ductal Adenocarcinomas are Frequently of Gastric Subtype.** N Ideno, T Ohtsuka, H Kono, K Fujiwara, Y Oda, S Aishima, T Ito, K Ishigami, S Tokunaga, K Ohuchida, S Takahata, M Nakamura, K Mizumoto, M Tanaka. Departments of Surgery and Oncology, Anatomic Pathology, Medicine and Bioregulatory Science, Clinical Radiology, and Medical Informatics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan; Department of Gastrointestinal Surgery, Kawasaki Medical School, Okayama, Japan

10:30 - 10:45 AM

REFRESHMENTS - PALM TERRACE &amp; SPA GARDEN

**10:45 AM - 12:45 PM**  
**STELLATE & STEM CELLS**

POMPEII/PROMENADE

Moderators: Minoti Apte & Diane Simeone

**Pancreatic Stellate Cells**

Introduction: Minoti Apte, MD, PhD

**Personal Reflections their Stellate Cell Journey**

Max Bachem, MD (Univ.of Ulm) & Jeremy Wilson, MD (UNSW)

**Pancreatic Stellate Cells and Cancer**

Mert Erkan, MD – TU Munich, Germany

**Pancreatic Stellate Cells–Multi-functional Cells in the Pancreas**

Atsushi Masamune, MD, PhD - Tohoku University Graduate School of Medicine, Japan

**Pancreatic Stem Cells**

Introduction: Diane Simeone, MD

**Pancreatic Cancer Stem Cells - quo vadis?**

Christopher Heesch, MD, PhD

Spanish National Cancer Research Centre, Spain

**Cancer Stem Cells and Epithelial to Mesenchymal Transition**

Andrew Rhim, MD – University of Pennsylvania, USA

**Abstract Presentations:**

**Pancreatic Stellate Cell Involvement in PanIN Progression:**

**Responses to High Fat Diet and Ethanol.** A Lugea, A Moro, RT Waldron, D Dawson, VLW Go, G Eibl, SJ Pandol. UCLA Center for Excellence in Pancreatic Diseases and VAGLAHS, Los Angeles, CA.

**Inhibition of Pancreatic Cancer Stem Cell Characteristics and Tumor Growth by Gli Inhibitor GANT61.** J Fu, SK Roy, J Sharma, S Shankar, RK Srivastava. Department of Pathology and Laboratory Medicine, The University of Kansas Medical Center, Kansas City, KS, USA. Department of Pharmacology, Toxicology and Therapeutics, and Medicine, The University of Kansas Medical Center, Kansas City, KS, USA. Celprogen, San Pedro, CA.

**12:45 - 2:00 PM**  
**LUNCH & POSTER VIEWING**  
 OCEAN TOWER BALLROOM I & II

**Joint Meeting** of the  
American Pancreatic Association &  
International Association of Pancreatology  
**October 31 - November 3, 2012**

**POSTER SESSIONS**

**THURSDAY, NOVEMBER 1**

**7:00 AM - 6:00 PM POSTER SESSION 1**

OCEAN TOWER 1

Posters P1:1-11 Posters of Distinction

**PI-1**

Pancreatic Cancer Risk in BRCA2 Mutation Carriers Extends Beyond First Degree Relatives. S.R. Solomon, H.T. Lynch, P. Hulick, D. Zakalik, C. Snyder, L. Dohaney, K. Vogel, K.K. Zorn, L. Smoulder, R.E. Brand. Dept. of Medicine, Univ of Pittsburgh, Pittsburgh, PA; Dept. of Preventive Medicine, Creighton University School of Medicine, Omaha, NE; Cancer Genetics Program, NorthShore University Health System, Chicago, IL; Cancer Genetics Program, Beaumont Health System, Royal Oak, MI; Dept. of OB/GYN, Univ of Pittsburgh, Pittsburgh, PA.

**PI-2**

Tumor-associated Pancreatic Metaplasia Assumes a Biliary Duct Gland Phenotype. K.E. DelGiorno, K. Takeuchi, J. Hall, K.P. Olive, J. Wells, H.C. Crawford. Department of Molecular Genetics and Microbiology, Stony Brook University, Stony Brook, NY; Department of Cancer Biology, The Mayo Clinic, Jacksonville, FL; Department of Medicine, Columbia University, New York, NY; Department of Developmental Biology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH.

**PI-3**

Characterization of Smoking and Pancreatitis -Induced Mouse Models of Pancreatic Cancer. P.J. Grippo, C. Nitsche, K. Adrian, A Samiei, S.J. Pandol, A.S. Gukovskaya. M. Edderkaoui. Department of Surgery, Northwestern University, Chicago, IL; University of California Los Angeles & Department of Veterans Affairs, CA.

**PI-4**

Oncogenic Ras Requires Activation for Pathological Levels of Activity. H. Huang, J. Daniluk, Y. Liu, B. Ji, C.D. Logsdon. Department of Cancer Biology, University of Texas M. D. Anderson Cancer Center, Houston, TX, USA; Departments of Biochemistry and Molecular Biology, Mayo Clinic, Rochester, MN, USA; Department of Gastroenterology, Changhai Hospital Affiliated to Second Military Medical University, Shanghai, China.

**PI-5**

PKC $\epsilon$  is a Critical Mediator of Necrosis in Acute Pancreatitis by Regulation of Mitochondrial and Non-mitochondrial Death Pathways. Y. Liu, J. Yuan, T. Tan, W. Jia, A. Lugea, A.S. Gukovskaya, S.J. Pandol. Veterans Affairs Greater Los Angeles Healthcare System, UCLA, and the Southern California Research Center for ALPD & Cirrhosis, Los Angeles, CA.

**PI-6**

Islet Isolation Outcome from Patients with Chronic Pancreatitis (CP) and C-Peptide Positive Diabetes Mellitus (DM) Undergoing Total Pancreatectomy For Islet Auto-Transplantation. G Loganathan, SM Soltani, M Tiwari, MD Bellin, JJ Wilhelm, GJ Beilman, DER Sutherland, BJ Hering, AN Balamurugan. Schulze Diabetes Institute, University of Minnesota, Minneapolis, MN.

**PI-7**

Natural History of Branch Duct Intraductal Papillary Mucinous Neoplasms of the Pancreas: Risk of Malignancy and Concomitant Ductal Adenocarcinoma. K. Sahora, M. Mino-Kenudson, S.P. Thayer, C. Ferrone, J. Wargo, A.L. Warshaw, K. Lillemoe, C. Fernandez-del Castillo. Department of Surgery and Pathology, Massachusetts General Hospital, Harvard Medical School, Boston, USA.

**PI-8**

Fibrosis Reduces Lipolytic Flux, Ameliorating Acute on Chronic Pancreatitis (CP). C. Acharya, R. Cline, D Jaligama, P. Noel, J. Delany, K.T. Bae, A. Furlan, D. Yadav, S. Navina, V. Singh. Departments of Medicine; Radiology; Pathology, University of Pittsburgh, UPMC Passavant, PA.

**PI-9**

Neoadjuvant Chemoradiotherapy with S-1 in Patients with Borderline Resectable Pancreatic Cancer with Involvement of the Major Artery. M. Suenaga, T. Fujii, S. Yamada, N. Okumura, D. Kobayashi, C. Tanaka, G. Nakayama, H. Sugimoto, M. Koike, S. Nomoto, M. Fujiwara, S. Takeda, A. Nakao, Y. Koderu. Department of Gastroenterological Surgery (Surgery II), Nagoya University Graduate School of Medicine, Nagoya, Japan; Department of Surgery, Nagoya Central Hospital, Nagoya, Japan.

**PI-10**

Bile Acid Induced Injury to Human Acinar Cell Does Not Involve Gpbar1 Activation. S. Sundaresan, H. Zhu, S. Kumar, R. Dawra, A. Saluja. Division of Basic and Translational Research, Department of Surgery, University of Minnesota, Minneapolis MN.

**PI-11**

A Two-Phase Method for Long-Term Maintenance of Functionally Competent Human Pancreatic Acinar Cells in vitro. M. Bläuer, J. Sand, J. Laukkanen. Tampere Pancreas Laboratory and Department of Gastroenterology and Alimentary Tract Surgery, Tampere University Hospital, Tampere, Finland.



**PI-12**

Cryopreserved Mouse Pancreatic Acinar Cells From Long-Term Explant Outgrowth Cultures Maintain Their Functional Phenotype After Thawing. M. Bläuer, J. Sand, J. Laukkarinen Tampere Pancreas Laboratory and Department of Gastroenterology and Alimentary Tract Surgery, Tampere University Hospital, Tampere, Finland.

**PI-13**

A Sustained-Release Prostacyclin Analog ONO-1301 Attenuates Pancreatic Fibrosis in Experimental Chronic Pancreatitis. Y. Niina, T. Oono, T. Ito, T. Nakamura, L. Lee, M. Hijioaka, M. Uchida, H. Igarashi, Y. Sakai, R. Takayanagi. Department of Medicine and Bioregulatory Science, Kyushu University, Fukuoka, Japan; 2Ono Pharmaceutical Co., Ltd., Research Headquarters, Osaka, Japan.

**PI-14**

Influence on Survival rate of Epigenetic Inactivation in RUNX3 Gene at 1p36 in Human Pancreatic Cancer. S. Nomoto, Y. Inokawa, H. Sugimoto, T. Fujii, S. Yamada, S. Takeda, Y. Kodera. Department of Surgery II, Nagoya University Graduate School of Medicine, Nagoya, Japan.

**PI-15**

Antimicrobial Peptide Defensin Alpha 1 as a Link Between Chronical Inflammation and Ductal Adenocarcinoma of the Pancreas. T. Pausch, S. Schneider, K. Felix, N. Giese, M.W. Büchler, J. Werner, W. Hartwig. Department of Surgery, University of Heidelberg, Heidelberg, Germany.

**PI-16**

C-Reactive Protein Accurately Predicts Severity of Acute Pancreatitis in Children. C. Wetherill, J. Melling, M. Jones. Department of Surgery, Alder Hey Children's NHS Foundation Trust, Liverpool, UK; NIHR Pancreas Biomedical Research Unit and CR-UK Pancreas Cancer Centre, University of Liverpool, Liverpool, UK.

**PI-17**

Immuno isolatory device protects islet allograft functions without immunosuppression in non-human primates. M Sasikala, GV Rao, R Pradeep, P Pavan Kumar, G Radhika, V Vijayalakshmi, P Suresh, M Sirisha, R Talukdar, V Seshadri, DN Reddy. Asian Institute of Gastroenterology, Hyderabad, India.

**PI-18**

Gene Conversion between Cationic Trypsinogen (PRSS1) and the Pseudogene Trypsinogen 6 (PRSS3P2) in a Patient with Chronic Pancreatitis. S. Beer, F.-U. Weiss, P. Simon, M.M. Lerch, M. Sahin-Tóth. Department of Molecular and Cell Biology, Boston University, Boston, MA; Department of Medicine A, Ernst-Moritz-Arndt-University, Greifswald, Germany.

**PI-19**

Development Of Aptamer For Pancreatic Cancer Stem Cell. Y-J Kim, JM Kim, DE Jung, S Y Song. Brain Korea 21 Project for Medical Science, Department of Internal Medicine, Institute of Gastroenterology, Severance Biomedical Science Institute, Division of Gastroenterology, Department of Internal Medicine, Yonsei University College of Medicine, Seoul, Korea.

**PI-20**

Investigation of MicroRNA (miRNA) in Pancreatic Cystic Tumors (IMPACT) Study: Differential Expression Observed Among Pancreatic Cystic Neoplasms. L.S. Lee, A.E. Szafranska-Schwarzbach, D. Wylie, A.M. Bellizzi, L.A. Doyle, V. Kadiyala, S. Suleiman, P.A. Banks, B.F. Andrus, D.L. Conwell. Center for Pancreatic Disease, Division of Gastroenterology, Hepatology and Endoscopy, Brigham and Women's Hospital, Boston, MA; Asuragen, Austin, TX; Department of Pathology, University of Iowa Hospitals and Clinics, Iowa City, IA; Department of Pathology, Brigham and Women's Hospital, Boston, MA.

**PI-21**

Does Acute Pancreatitis Change the Natural History of Intraductal Papillary Mucinous Neoplasm (IPMN)? SJ Lee, JA Waters, CM Schmidt, HA Pitt, NJ Zyromski. Department of Surgery, Indiana University School of Medicine, Indianapolis, IN.

**PI-22**

MicroRNAs with Prognostic Significance in Neuroendocrine Pancreatic Tumours. F.F. di Mola, F. Tavano, F.P. Burbaci, L. Lombardi, M. Copetti, E. Maiello, P. di Sebastiano. Department of Surgery, Unit of Oncology and Unit of Biostatistics, IRCCS Casa Sollievo della Sofferenza, San Giovanni Rotondo, Italy.

**PI-23**

Clinical Usefulness of Repeated Pancreatic Juice Cytology Via Endoscopic Naso-Pancreatic Drainage Tube In Patients With Pancreatic Cancer. R Mikata, T Ishihara, M Tada, K Tawada, M Saito, J Kurosawa, Y Sakai, T Tsuyuguchi, M Miyazaki, O Yokosuka. Department of Medicine and Clinical Oncology, Graduate School of Medicine, Chiba University; Department of General Surgery, Graduate School of Medicine, Chiba University, Chiba, Japan.

**PI-24**

Improved Effect of Chemoradiotherapy in Combination with Adenovirus-Mediated Interferon Therapy in an Immunocompetent Model. J. Han, Y. Miura, R. Shanley, L. Xianghua, K. Aoki, S.M. Vickers, M. Yamamoto, J. Davydova. Department of Surgery, Division of Biostatistics, University of Minnesota, Minneapolis, MN; National Cancer Center Research Institute, Tokyo, Japan.

**PI-25**

Quality of Life in Patients after Total Pancreatectomy is Comparable to Quality of Life in Patients After a Partial Pancreatic Resection. I. Epelboym, M. Winner, J. DiNorcia, M. Lee, J. Lee, B. Schrope, J. Chabot, J. Allendorf. Department of Surgery, Columbia Presbyterian Medical Center, New York, NY.

**PI-26**

Surgical Treatment for Chronic Pancreatitis, Discussion of Drainage and Total Pancreatectomy with Islet Autotransplantation. N Sakata, G Yoshimatsu, T Aoki, M Ishida, K Fukase, S Ottomo, M Mizuma, T Okada, K Nakagawa, H Hayashi, T Morikawa, H Yoshida, F Motoi, T Naitoh, Y Katayose, K Miura, S Egawa, M Unno. Division of Hepatobiliarypancreatic Surgery, Department of Surgery, Tohoku University School of Medicine.

**PI-27**

Knockout of 5-Lipoxygenase in an Established Pancreatic Cancer Model in Mice is Not Influencing Development and Growth of Pancreatic Cancer but Surprisingly Leads to Rapid Progress of the Disease. T Kehl, S Noor, M Stauch, S Weinzierl, MW Buchler, P Krieg, I Esposito, R Hennig. Division of Genome Modifications and Carcinogenesis, DKFZ, Heidelberg, Germany; Department of Surgery, University of Heidelberg, Germany; Department of Pathology, TUM, Munich, Germany; Department of Surgery, Katharinenhospital, Stuttgart, Germany.

**PI-28**

Up-regulation of MBD1 Promotes Pancreatic Cancer Cell Epithelial-Mesenchymal Transition and Invasion by Epigenetic Down-regulation of E-cadherin. S.R. Ji, J. Xu, W.W Zhu, W.Y. Xu, W.T. Yao and X.J. Yu. Department of Pancreas and Hepatobiliary Surgery, Fudan University Shanghai Cancer Center; Department of Oncology, Shanghai Medical College, Fudan University, Shanghai, China.

**PI-29**

Assessment of Acute Pancreatitis in Liraglutide Type 2 Diabetes Trials. T.M. Jensen, K. Saha, W. Steinberg. Global Medical Affairs, Novo Nordisk A/S, Soeborg, Denmark; Safety Surveillance, Novo Nordisk A/S, Bagsvaerd, Denmark; Department of Medicine, George Washington University, Washington, DC, USA.

**PI-30**

Anti-inflammatory Macrophage Induced MMP9 and ADAM8 Expression Increases Invasion Rate of Pancreatic Cancer Cells. H. Seppänen, H. Mustonen, S. Vainionpää, Z.H. Shen, H. Repo, E. Kempainen, P. Puolakkainen. Department of Surgery, Helsinki University Central Hospital; Department of Bacteriology and Immunology, University of Helsinki, The Hartmann Institute, Helsinki, Finland.

**PI-31**

Natural history of small  $\leq 3$  cm cystic tumors of the Pancreas. S Sanyal, AK Siriwardena. Hepato-Pancreato-Biliary Surgery Unit, Manchester Royal Infirmary, Manchester UK.

**PI-32**

RB Loss in Conjunction with Oncogenic Kras Causes Perturbations in TGF- $\beta$  Signaling and Upregulates AGR2 Expression. A.J. Gore, A.M. Norris, and M. Korc. Departments of Medicine, Biochemistry and Molecular Biology, Indiana University School of Medicine, Melvin and Bren Simon Cancer Center, Indianapolis, IN.

**PI-33**

Ribonucleotide Reductase Subunit M2 Levels Affect Resistance to Gemcitabine in vitro. J Melling, E Shaw, K Dajani, B Lane, A Bauer, J Hoheisel, J Neoptolemos, W Greenhalf, P Ghaneh. NIHR Pancreas Biomedical Research Unit and CR-UK Pancreas Cancer Centre, University of Liverpool, Liverpool, UK; Functional Genome Analysis, DKFZ, Heidelberg, Germany.

**PI-34**

Aurora A Phosphorylation of the Epigenetic Regulator HP1 $\gamma$  Mediates Cell Division in Pancreatic Cancer Cells. A. Grzenda, P. Leonard, G. Urrutia, A. Mathison, M. Fernandez-Zapico, R. Urrutia, G. Lomber. GI Research Unit, Mayo Clinic, Rochester, MN.

**PI-35**

Discovery of Early Detection Markers of Pancreatic Cancer and Clinical Application In Blood-Based Screening. R Kwak, B Keeley, AA Guzzetta, J Jeschke, CL Wolfgang, TH Wang, JM Herman, C Iacobuzio-Donahue, N Ahuja. Department of Surgery; Department of Biomedical Engineering; Department of Radiation Oncology; Department of Pathology, Johns Hopkins University School of Medicine, Baltimore, MD, USA.

**PI-36**

Targeting Nuclear Export Machinery for Pancreatic Cancer Therapy. AS Azmi, S Shacham, A Aboukameel, B Bao, M Kauffman, FH Sarkar, RM Mohammad. Dept of Pathology and Oncology, Karmanos Cancer Institute, Wayne State Univ, Detroit, MI; Karyopharm, Boston, MA.

**PI-37**

Early Postoperative Outcomes after Pancreaticoduodenectomy for Patients with a History of Gastrectomy. T. Yasuda, M. Araki, Y. Yoshioka, Y. Nakata, H. Ishikawa, M. Yamazaki, T. Nakai, Y. Takeyama. Department of Surgery, Kinki University Faculty of Medicine, Osaka-sayama, Japan.

**PI-38**

Pancreatic Cancer Cells in Hypoxia Enhance the Motility of Pancreatic Stellate Cells Via Increased Secretion of Vascular Endothelial Growth Factor. D Eguchi, K Ohuchida, S Kozono, L Cui, M Zhao, F Kenji, S Akagawa, T Ohtsuka, S Takahata, K Mizumoto, M Tanaka. Departments of Surgery and Oncology, and Advanced Medical Initiatives, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan.

**PI-39**

Metabolomic Profiling of Curcumin Effects on Pancreatic Cancer: Insights Into Anti-Tumor Activity. Y. Rattigan, A. Maitra. The Sol Goldman Pancreatic Cancer Research Center, Departments of Pathology and Oncology, John Hopkins University School of Medicine, Baltimore, MD.

**PI-40**

Metabolic Testing Partially Predicts Islet Yield in Patients undergoing Total Pancreatectomy and Islet Autotransplantation. R. Lundberg, G.J. Beilman, T.B. Dunn, T.L. Pruett, M.L. Freeman, P. Ptacek, K.L. Berry, J.J. Wilhelm, A.N. Balamurugan, M.D. Bellin. University of Minnesota, Minneapolis, MN.

**PI-41**

Laparoscopic Local Resection of Pancreatic Tumor. S Takahata, T Otsuka, J Ueda, K Mizumoto, S Shimizu, S Aishima, M Tanaka. Department of Surgery and Oncology; Department of Anatomic Pathology, Kyushu University.

**PI-42**

Meta-Analysis of the Role of C-Reactive Protein in Predicting Severity of Acute Pancreatitis. T. Jin, K. Altaf, JJ Xiong, MA Javed, W Huang, R Sutton, Q Xia. NIHR Liverpool Pancreas Biomedical Research Unit, Royal Liverpool University Hospital, UK; Department of Integrated Traditional Chinese and Western Medicine, West China Hospital, China.

**PI-43**

Impact of Diabetes Mellitus on Clinical Outcomes in Patients Undergoing Surgical Resection for Pancreatic Cancer. P Hart, W Bamlet, P Burch, R Frank, G Petersen, and S Chari. Division of Gastroenterology and Hepatology, Mayo Clinic Rochester, MN.

**PI-44**

Efficacy of Endoscopic-Ultrasound-Guided Transmural Drainage in Patients with Pancreatic Pseudocysts. T. Ishihara, M. Tada, K. Tawada, J. Kurosawa, M. Saito, R. Mikata, S. Itho, K. Ishii, H. Ohyama, T. Nishikawa, H. Sugiyama, Y. Sakai, T. Tsuyuguchi, O. Yokosuka. Department Medicine and Clinical Oncology, Graduate School of Medicine, Chiba University, Chiba, Japan.

**PI-45**

Epithelial Subtypes of Intraductal Papillary Mucinous Neoplasm (IPMN) of the Pancreas: EUS and Cyst Fluid Analysis. W.J. Yoon, E.S. Daglilar, M. Mino-Kenudson, V. Morales-Oyarvide, M.B. Pitman, W.R. Brugge. Gastrointestinal Unit and Department of Pathology, Massachusetts General Hospital, Boston, MA.

**PI-46**

Pediatric Pancreatic Endoscopic Ultrasound Guided Trucut Biopsy. L. Fujii, S. Chari, M. El-Youssef, N. Takahashi, L. Zhang, M.J. Levy. Division of Gastroenterology and Hepatology, Division of Radiology, Division of Pathology, Mayo Clinic, Rochester, MN, USA.

**PI-47**

Da-Cheng-Qi Decoction (DCQD) Protects Against Pancreatic Damage In Murine Experimental Acute Pancreatitis (AP). W Huang, T Jin, MA Javed, L Wen, QM Nunes, M Chvanov, A Tepikin, DN Criddle, Q Xia, R Sutton. NIHR Liverpool Pancreas Biomedical Research Unit, Royal Liverpool and Broadgreen University Hospitals NHS Trust and University of Liverpool; Sichuan Provincial Pancreatitis Centre, Department of Integrated Traditional Chinese and Western Medicine, Western China Hospital, Sichuan University, Chengdu, China; Department of Cellular and Molecular Physiology, University of Liverpool, Liverpool, UK.

**PI-48**

General Anesthesia Confounds Interpretation of the Endoscopic Pancreatic Function Test: Preliminary Observations. V. Kadiyala, S.L. Suleiman, S.J. Burton, L.S. Lee, P.A. Banks & D.L. Conwell. Center for Pancreatic Disease, Brigham and Women's Hospital, Boston, MA.

**PI-49**

Fibroblasts Expressing Podoplanin Enhance the Tumor Progression of Invasive Ductal Carcinoma of Pancreas. K. Shindo, S. Aishima, N. Ike-naga, K. Ohuchida, K. Mizumoto, M. Tanaka, Y. Oda. Departments of Anatomic Pathology, Department of Surgery and Oncology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan.

**PI-50**

Segmental Arterial Mediolytic (SAM) – A Mistaken Case of Hemorrhagic Pancreatitis. J.L. Horsley-Silva, S. Ngamruengphong, G. Frey, R. Paz-Fumagalli, M.D. Lewis. Mayo Clinic, Jacksonville, Florida, USA.

**PI-51**

TYMS and ERCC1 Expression in Naïve and Neoadjuvant-Treated Pancreatic Cancer. A.S. Walker, X. Chen, L. Gomez-Arellano, R. Ishan, M. Dwinell, S. Tsai, D. Evans, A.C. Mackinnon. Departments of Pathology, Microbiology and Molecular Genetics, Surgery, Medical College of Wisconsin, Milwaukee, WI, USA.

**PI-52**

Intraarterial Therapy, Interleukins and Oxidative Stress Parameters in Acute Pancreatitis Patients. S. Chooklin, O. Hranat, Department of Surgery, Medical University, Lviv, Ukraine.

**PI-53**

Prior Surgery Determines Islet Yield and Insulin Requirement after Total Pancreatectomy and Islet Autotransplantation. H. Wang, K.D. Desai, H. Dong, S. Owzarski, J. Romagnuolo, K.A. Morgan, D.B. Adams. Department of Surgery, Medical University of South Carolina, Charleston, SC.

**PI-54**

Ampullary Intraductal Papillary Mucinous Neoplasm-Is It Main Duct Type or Branch Type IPMN? A. Pap, A. Tarpay, J. Pozsár, M. Burai, T. Nagy, M. Bak, E. Zs.Tóth, J. Szőke. National Institute of Oncology, Dept. of Gastroenterology, National Institute of Oncology, Dept. of Chemotherapy, National Institute of Oncology, Dept. of Cytopathology, Budapest, Hungary.

**PI-55**

Endogenous Cholecystokinin (CCK) Expression in Human Pancreatic Cancer. C. Awad, C. McGovern, G.L. Matters, J.F. Harms, J.P. Smith. Departments of Medicine, Biochemistry and Molecular Biology, Pennsylvania State University, Hershey, PA and; Department of Biological Sciences, Messiah College, Grantham, PA.

**PI-56**

Detection of Mutations in Pancreatic Juice Collected from the Duodenum by Post Secretin-Aspiration is Not Reliable. \*J.A. Nicholson, \*J. Butler, M. Johnstone, L. Yan, J.C. Evans, S. Sarkar, H.L. Smart, M. Lombard, C. Halloran, P. Ghaneh, M. Raraty, R. Sutton, J.P. Neoptolemos, W. Greenhalf. NIHR Pancreas Biomedical Research Unit and Department of Gastroenterology, Royal Liverpool & Broadgreen University Hospital, Cancer Research UK Centre, Liverpool, UK. \*Joint first author.

**PI-57**

Epigenetic Control of KRAS-Induced Transformation by GLI Transcription Factors. M.G. Fernandez-Barrena, L.L. Almada, and M.E. Fernandez-Zapico. Schulze Center for Novel Therapeutics, Mayo Clinic, Rochester, MN, USA.

**PI-58**

Pylorus Resection in Partial Pancreatico-Duodenectomy: Impact on Delayed Gastric Emptying. T. Hackert, U. Hinz, S. Fritz, W. Hartwig, L. Schneider, O. Strobel, J. Werner, M.W. Büchler. Dept. of Surgery, University of Heidelberg, Heidelberg, Germany.

**PI-59**

Disparities between Public and Private Hospitals within a Single Academic Center in the Management of Gallstone Pancreatitis. M. Abouzeid, C.S. Graffeo, A. Nguyen, M. Marr, D. Ayo, N. Obeid, D. Bryk, , H.L. Pachter, S.M. Cohen. Department of Surgery, New York University School of Medicine, New York, NY.

**PI-60**

An Extract of *Artemisia drancunculus* L. Stimulates Insulin Secretion from  $\beta$  cells, Activates AMPK and Suppresses Inflammation. S Aggarwal, Q Wang, G Shailendra, DM Ribnicky, D Burk, WT Cefalu. William Hansel Cancer Prevention Laboratory, Cell Biology and Bio-imaging, Botanical Research Center, Pennington Biomedical Research Center, Louisiana State University, System, Baton Rouge, LA, USA; Biotech Center, Rutgers University, New Brunswick, NH; Department of Experimental Pathology, Mayo Clinic, Rochester, MN, USA.

**PI-61**

Usefulness of 18-Fluorodeoxyglucose Positron Emission Tomography in Predicting Survival and Gemcitabine Based Chemoresponse of Patients With Locally Advanced Pancreatic Cancer. D.U. Kim, S. Kim, Y.J. Choi, G.H. Kim, D.H. Kang, G.A. Song. Department of Internal Medicine, Department of Nuclear Medicine, and Biomedical Research Institute, Pusan National University Hospital, Busan, Korea.

**PI-62**

Endoscopic Versus Surgical Step-Up Approach in Patients With Infected Necrotizing Pancreatitis (TENSION): Design and Rationale of a Randomized Controlled Multicenter Trial. S van Brunschot, H van Santvoort, M Boermeester, M Dijkgraaf, R Timmer, M Bruno, F Vleggaar, O Bakker, M Besselink, R Voermans, T Bollen, C van Eijck, H van Goor, K Dejong, JW Poley, V Nieuwenhuijs, S Hofker, S Schaapherder, H Lameris, H Gooszen and P Fockens for the Dutch Pancreatitis Study Group.

**PI-63**

Resection of Metastatic Melanoma in the Pancreas Showing Total Regression. A Case Report. E. Morandi, M. Castoldi, D.A. Merlini, L. Turati, M. Milanese. Department of General Surgery, Rho Hospital, Rho (MI), Italy.

**PI-64**

Quality of Life after Pancreaticoduodenectomy Using Different Reconstruction Techniques: A Follow-up Multicenter Study. R. Pezzilli, M. Falconi, A. Zerbi, R. Casadei, M.T. Iammarino. Departments of Digestive Diseases & Internal Medicine and Surgery, St. Orsola-Malpighi Hospital, University of Bologna; Department of Surgery, GB Rossi Hospital, Verona; Department of Surgery, Scientific Institute Humanitas, Rozzano, Milan, Italy.

**PI-65**

Transdifferentiation of Pancreatic Acinar Cells, and the Role of Stem Cell Factor and c-kit Receptor Tyrosine Kinase Signal Transduction System. M. Satake, G. Eibl, T Hamada, H Ishikawa, V. L. Go, Y Fukuda, J Fujimoto, T. Tsujimura. Department of Pathology, Hyogo College of Medicine; Saisyama Medical Center, Hyogo College of Medicine; Department of Surgery, Hyogo College of Medicine; David Geffen School of Medicine at UCLA.

**PI-66**

Long-Term Prognosis after Portal Vein Resection for Pancreatic Head Cancer. M.J. Kang, J.-Y. Jang, J.W. Park, W. Kwon, Y.R. Chang, and S.W. Kim. Department of Surgery, Seoul National University College of Medicine, Seoul, Korea.

**PI-67**

Clinical Utility of Revised Atlanta Classification of Acute Pancreatitis (AP) in Chinese Patients. W Huang, T Jin, ZQ Lin, P Xue, MA Javed, XN Yang, J Guo, K Jiang, R Mukherjee, K Altaf, R Sutton, Q Xia. Sichuan Provincial Pancreatitis Centre, Department of Integrated Traditional Chinese and Western Medicine, West China Hospital, Sichuan University, Chengdu, China; 2NIHR Liverpool Pancreas Biomedical Research Unit, Royal Liverpool and Broadgreen University Hospitals Trust and University of Liverpool, Liverpool, UK.

**PI-68**

The Roles of Intraductal US in Acute Biliary Pancreatitis Patients without Cholelithiasis on ERCP. DC Kim, HJ Choi, JH Moon, TH Lee, S-W Cha, YD Cho, S-H Park, S-J Kim. Digestive Disease Center, Department of Internal Medicine, Soon Chun Hyang University School of Medicine, Bucheon, Korea.

**PI-69**

Aryl Hydrocarbon Receptor Regulates Pancreatic IL-22 and Protects Against Acute Pancreatitis in Mice. J Xue, DTC Nguyen, A Habtezion. Department of Medicine, Stanford University School of Medicine, Stanford, CA, USA.

**PI-70**

Drug-eluting Microparticles for the Treatment of Pancreatic Cancer. Z. Marwil, A. Asgharpour, M. Ganesh, J. Ling, A. Stanek, R. Gross, F. Gress, L. Martello-Rooney. Dept of Medicine, Division of Gastroenterology, Dept of Pathology, SUNY Downstate Medical Center, Brooklyn, NY; NYU Polytechnic Institute, Brooklyn, NY.



**PI-71**

A Common Variant of MIA2 and the HNF1A-MIA2-ERN1 Axis Reciprocally Determine Response to Endoplasmic Reticulum- and Genotoxic Stress in Pancreatic Cancer. B. Kong, C. W. Michalski, W. Wu, C. Tosolini, N. Valkovska, M. Erkan, H. Friess, J. Kleeff. Department of Surgery, Technische Universität München, Munich, Germany.

**PI-72**

Solid Pseudopapillary Tumors of the Pancreas: An Updated Experience in Single Center. J. Wu, Z. Qian, C. Dai, K. Jiang, Q. Li, W. Gao, F. Guo, J. Chen, J. Wei, Z. Lu, Y. Miao, Department of General Surgery, The First Affiliated Hospital of Nanjing Medical University, Nanjing, China.

**PI-73**

Giant Solid Pseudopapillary Neoplasm of the Pancreas in a Middle-Aged Man: A Case Report. M Iseki, M Mizuma, H Yoshida, T Okada, K Nakagawa, H Hayashi, T Morikawa, S Ottomo, N Sakata, H Ohtsuka, K Fukase, T Aoki, F Motoi, T Naitoh, Y Katayose, S Egawa, M Unno. Division of Hepato-biliary-pancretic Surgery & Division of Integrated Surgery and Oncology, Department of Surgery, Tohoku University Graduate School of Medicine.

**PI-74**

Pancreatic Duct Glands (PDG), a Progenitor Stem Cell Niche Responsible for Pancreatic Epithelial Renewal and Repair in Response to Inflammatory Injury. J. Yamaguchi, M. Mino-Kenudson, A.S. Liss, K.D. Lillemoe, C. Fernández-del Castillo, A.L. Warshaw, S.P. Thayer. Warshaw Institute and Departments of Surgery and Pathology, Massachusetts General Hospital and Harvard Medical School, Boston, MA.

**PI-75**

Surgical Management for IPMN of the Pancreas. T. Hatori, S. Suzuki, A. Kimijima, N. Ooshima, T. Furukawa, Y. Kuboki, K. Shimizu, K. Shiratori, M. Yamamoto. Department of Gastroenterological Surgery, Institute for Integrated Medical Sciences; Department of Gastroenterology, Tokyo Women's Medical University, Tokyo, Japan.

**PI-76**

Pharmacokinetics and Comparative Effects of Frondosides in Pancreatic Cancer. J. Al Shemali, S.A. Thomas, X-Z Ding, R.A. Newman, S. Attoub, S.P. Collin, T.E. Adrian. Department of Physiology, Faculty of Medicine, UAE University, Al Ain, UAE; Department of Pathology, Feinberg School of Medicine, Northwestern University, Chicago, IL; MD Anderson Cancer Center, Houston, TX; and Coasts BioResources, Stonington ME.

**PI-77**

The Intracellular Domain of Notch1 (NIC1) is Hyperphosphorylated following its activation in Human Pancreatic Cancer Cells. K. Robert, I. Tremblay, M.-J. Boucher. Gastroenterology Unit, Department of Medicine, Faculty of Medicine and Health Science, Université de Sherbrooke, Québec, Canada.

**PI-78**

Immunoregulatory Properties of SkQ1 Antioxidant in Pancreatic Cancer. S. Karakhanova, Y. Yang, P. P. Philippov, A.V. Bazhin, J. Werner. Department of General Surgery, University of Heidelberg, Germany; Department of Cell Signalling, Belozersky Institute of Physico-Chemical Biology and Institute of Mitoengineering, Moscow, Russia.

**PI-79**

Differential Diagnosis of Solid Pancreatic Masses: Contrast-Enhanced Harmonic EUS (CEHEUS), Quantitative EUS-Elastography (QE-EUS) or Both? J Iglesias-Garcia, B Lindkvist, JB Cruz-Soares, LM Lopes, C Marra-Lopez, J Lariño-Noia, JE Dominguez-Muñoz. Gastroenterology Department. University Hospital of Santiago de Compostela. Foundation for Research in Digestive Diseases (FIENAD). Institute of Medicine, Sahlgrenska Academy, University of Gothenburg. Gastroenterology Department, Braga Hospital. Gastroenterology Department, Santa Luzia Hospital. Gastroenterology Department, Txagorritxu Hospital Gastroenterology Department. University Hospital of Santiago de Compostela, Spain.

**PI-80**

The Role of Preoperative EUS in Addition to CT in Patients Suspected of Pancreatic or Periampullary Cancer. K.P. Cieslak, H.C. van Santvoort, F.P. Vleggaar, M.S. van Leeuwen, F.J. ten Kate, M.G. Besselink, I.Q. Molenaar. Department of Surgery, University Medical Center Utrecht, Utrecht, The Netherlands; Department of Gastroenterology and Hepatology, University Medical Center Utrecht, Utrecht, The Netherlands; Department of Radiology, University Medical Center Utrecht, Utrecht, The Netherlands; Department of Pathology, University Medical Center Utrecht, Utrecht, The Netherlands.

**PI-81**

Background and Design of Multicenter Randomized Study: Pancreaticojejunostomy Versus Pancreaticogastrostomy in Patients With Soft Residual Pancreas and Small Diameter of Pancreatic Duct. D. Radenkovic, Dj. Bajec, P. Gregoric, N. Ivancevic, V. Jeremic, B. Karadzic, A. Antic, I. Pejovic, S. Kmezic. Clinic for Digestive Surgery, & Clinic for Emergency Surgery, University of Belgrade, Belgrade, Serbia.

**PI-82**

Clinicopathologic Features of Multifocal Intraductal Papillary Mucinous Neoplasm of the Pancreas. S Fritz, M Schirren, M Klauss, F Bergmann, T Hackert, W Hartwig, O Strobel, L Grenacher, MW Büchler, J Werner. Department of General and Visceral Surgery; Department of Diagnostic and Interventional Radiology; Institute of Pathology; University of Heidelberg, Heidelberg, Germany.

**PI-83**

A Novel Delivery Method to Transduce Genes in the Pancreas. A. Uc, M.A. Griffin, M. Abu-El-Hajja, M.S. Restrepo, T. Wallen, P.B. McCray, Jr., B.L. Davidson, A. Divekar. Departments of Pediatrics; Otolaryngology; Internal Medicine; Neurology and Physiology & Biophysics; University of Iowa, Iowa City, IA, USA.

**PI-84**

Plasma KC and IL-6 are Early Predictive Markers of Severe Acute Pancreatitis. D. Okamura, M.E. Starr, B.M. Evers, H. Saito. Department of Surgery, Physiology, and Markey Cancer Center, University of Kentucky, Lexington, KY.

**PI-85**

Oncolytic Adenovirus for Imaging and Treatment of Pancreatic Cancer. J. Davydova, M. Trujillo, M. Oneal, S. McDonough, J. Han, S. Vickers, J. Morris, M. Yamamoto. Department of Surgery, University of Minnesota, Minneapolis, MN; Division of Endocrinology, Mayo Clinic, Rochester, MN.

**PI-86**

Involvement of the MPTP in Minocycline-Induced Mitochondrial Dysfunction in Murine Pancreatic Acinar Cells. M.A. Javed, W. Li, D. Collier, T. Jin, W. Huang, M. Awais, A. Tepikin, D.N.Criddle, R. Sutton. Liverpool NIHR Pancreas Biomedical Research Unit, Royal Liverpool University Hospital, & Department of Cellular and Molecular Physiology, University of Liverpool, Liverpool, UK.

**PI-87**

Pancreatic Cancer Cells Enhance the Ability of Collagen Internalization During Epithelial–Mesenchymal Transition. N. Ikenaga, K. Ohuchida, K. Mizumoto, S. Akagawa, K. Fujiwara, D. Eguchi, S. Kozono, T. Ohtsuka, S. Takahata and M. Tanaka. Departments of Surgery and Oncology, Kyushu University, Fukuoka, Japan.

**PI-88**

Mucin MUC4 resists Gemcitabine-induced Pancreatic Cancer Cell Death by Promoting Autophagy. S. Kaur, S. Bafna, S. Rachagani, A.K. Ganti, S.K. Batra. Department of Biochemistry and Molecular Biology, UNMC, Omaha, NE, USA.

**PI-89**

Eps8: A Master Regulator of Integrin-Dependent Pancreatic Cancer Invasion. J. Tod, V. Jenei, M. Chrzan, C. Johnson, D. Fine, G Thomas. Experimental Pathology Group, University of Southampton School of Medicine, Southampton, UK.

**PI-90**

Dual Inhibition of AKT and mTOR Signaling Pathways Decreases Human Pancreatic Neuroendocrine Tumor (PNET) Metastatic Progression. C. Djukom, L. Porro, A. Mrzek, M. Hellmich, C. Chao. Dept. of Surgery, University of TX Medical Branch; Galveston, TX, USA.

**PI-91**

Epigenetic Reprogramming of Important Developmental Genes Occurs in Pancreatic Disease. C.L. Pin, T. Ponich, K. Leslie, R. Mehmood. Children's Health Research Institute, London, Ontario, Canada; Depts. of Paediatrics, Physiology & Pharmacology, Oncology, Surgery and Medicine, University of Western Ontario, London, Ontario, Canada.

**PI-92**

Characterization of Exocytosis in Vesicle Associated Membrane Protein (VAMP) 8 Knockout Mice. M.A. Falkowski, H.Y. Gaisano, G.E. Groblewski. Department of Nutritional Sciences, University of Wisconsin, Madison, WI; Department of Medicine, University of Toronto, Toronto, Ontario, Canada.

**PI-93**

Cross-talk Between STAT3 and MAPK Signaling in Pancreatic Cancer. N. Nagathihalli, Y. Beesetty, C. Shi, N. Merchant. Departments of Surgery, Pathology and Cancer Biology, Vanderbilt-Ingram Cancer Center, Nashville, TN.

**PI-94**

Hypoxia-induced Aggressiveness of Pancreatic Cancer (PC) Cells Is Due To Increased Expression of VEGF, IL-6 and miR-21, which could be attenuated by CDF. B Bao, S Ali, S Banerjee, F Sarkar. Department of Pathology, WSU, Detroit, MI.

**FRIDAY, NOVEMBER 2****7:00 AM - 6:00 PM POSTER SESSION 2****OCEAN TOWER 1****Posters PII:1-11 Posters of Distinction****PII-1**

Intraoperative Islet Isolation for Pancreas Autotransplantation: A Novel Technique. M. Cooper, N. Desai, K. Hirose, Z. Sun, D. Warren, V. Singh, R. Kalyani, E. Hall, K. Knott, L. Asad, D. Anderson, M. Shablott, M. Makary. Department of Surgery, Johns Hopkins Hospital, Baltimore, MD.

**PII-2**

Assessing the Global and Local Roles of TGF- $\beta$  in Early Pancreatic Oncogenesis and Inflammation. DR Principe, W Mascarinas, J Bauer, K Adrian, EA Wayne, B Jung, PJ Grippo. Department of Surgery, GI Oncology Division, Northwestern University, Chicago, IL, USA.

**PII-3**

New diagnosis of chronic pancreatitis: Risk of missing a pancreatic cancer. S. Munigala, F. Kanwal, H. Xian, T. Chrusciel, J. Scherrer, B. Agarwal, Division of Gastroenterology and Hepatology, Saint Louis University School of Medicine, and Research Service, Clinical Research and Epidemiology Workgroup, Veterans Affairs Medical Center, St. Louis, MO.

**PII-4**

The FDG-PET Predicts Postoperative Early Recurrence and Poor Prognosis after Resection of Pancreatic Adenocarcinoma. T. Sugiura, T. Yamamoto, Y. Okamura, T. Mizuno, H. Kanemoto, K. Uesaka. Division of Hepato-Biliary-Pancreatic Surgery, Shizuoka Cancer Center Hospital, Shizuoka, Japan.

**PII-5**

Unsaturated-Triglyceride toxicity to Pancreatic Acinar cells is mediated by Lipolysis. P. Noel, R. Cline, C. Durgampudi, C. Acharya, D. Jaligama, V. Singh. Departments of Medicine, UPMC Passavant, University of Pittsburgh, PA.

**P11-6**

JAK-2 Downregulation Sensitizes Pancreatic Cancer Cells to TRAIL Induced Cell Death. V. Dudeja, A. Oliveira, S. Banerjee, V. Sangwan, N. Mujumdar, T.N. MacKenzie, R.K. Dawra, S.M. Vickers, A.K. Saluja. Department of Surgery, University of Minnesota, Minneapolis, MN, USA.

**P11-7**

NHERF-1 Regulates Pancreatic Ductal Secretion and Modulates the Severity of Experimental Acute Pancreatitis. Z. Rakonczay Jr., P. Pallagi, Z. Balla, A.K. Singh, S. Dósa, B. Iványi, B. Riederer, R. Engelhardt, K. Jármay, G. Perides, V. Venglovecz, J. Maléth, T. Wittmann, T. Takács, U. Seidler, P. Hegyi. First Department of Medicine, Department of Pathology, Department of Pharmacology and Pharmacotherapy, University of Szeged, Szeged, Hungary; Department of Gastroenterology, Hepatology and Endocrinology, Hannover Medical School, Hannover, Germany; Department of Surgery, Tufts Medical Center, Boston, MA, USA.

**P11-8**

Improved Prognostic Accuracy in Pancreatic Cancer Using Novel Glycan-Based Biomarkers. Z. Cao, H. Tang, K. Partyka, K. Maupin, R. Brand, B. Haab. Van Andel Institute, Grand Rapids, MI; University of Pittsburg, Pittsburg, PA.

**P11-9**

The Pancreatic Tumor Microenvironment Comprises Discreet Domains and is Regulated by Crosstalk between PSCs and Tissue Macrophages. C. Shi, R. Chaturvedi, F. Revetta, K.T. Wilson, M.K. Washington, A.L. Means. Departments of Pathology; Medicine; Surgery; and Cell and Developmental Biology, Vanderbilt University, Nashville, TN.

**P11-10**

The miR-146a Regulates EGFR Signaling Both in vitro and in a Mouse Model of Pancreatic Cancer in vivo. S. Ali, A. Ahmad, A. Aboukameel, A. Ahmed, B. Bao, P.A. Philip, F.H. Sarkar. Department of Pathology and Oncology, Karmanos Cancer Institute, Wayne State University School of Medicine, Detroit, MI.

**P11-11**

Differential Modulation of XBP1 and PERK ER Stress Pathways in Acute Pancreatitis. R.T. Waldron, P. Javaherzadeh, A. Gerloff, Q. Zeng, J.B. Patterson, S.J. Pandol, A. Lugea. VAGLAHS and UCLA, Los Angeles, CA.

**P11-12**

Heme Oxygenase-1 Gene Promoter Polymorphism and Acute Pancreatitis. A. Gulla, B.J. Evans, J.M. Navenot, J. Pundzius, G. Barauskas, A. Gulbinas, Z. Dambrauskas, H.A. Arafat, Z. Wang. Department of Surgery, Academy of Medicine, Lithuanian University of Health, Sciences, Kaunas, Lithuania, Department of Surgery, Thomas Jefferson University, Philadelphia, Pennsylvania, Department of Pathology, Thomas Jefferson University, Philadelphia, Pennsylvania, Laboratory of Surgical Gastroenterology, Institute for Digestive Research, Lithuanian University of Health, Sciences, Kaunas, Lithuania.

**P11-13**

Signal Transducer and Activator of Transcription 5 (STAT5) Expression and Activation in Pancreatic Cancer. A. Matsushita, H. Sumiyoshi, Y. Kawano, Y. Mizuguchi, M. Yoshioka, N. Hagiwara, T. Matsutani, Y. Nakamura, S. Matsumoto, T. Aimoto, T. Ishiwata, Z. Naito, E. Uchida. Department of Surgery and Department of Pathology, Nippon Medical School, Tokyo, Japan.

**P11-14**

Comparison of Dissection Techniques in Pancreatoduodenectomy. A. Kashintcev, N.Y. Kochanenko, K.V. Paveletc, E.N. Imyanitov. Department of Faculty Surgery, Department of Medical Genetics of the State Pediatric Medical Academy, Saint Petersburg, Russia.

**P11-15**

Minnelide Decreases Invasive Potential in Pancreatic Cancer. A. Nomura, S. Banerjee, V. Sangwan, N.R. Mujumdar, S.M. Vickers, A.K. Saluja. Division of Basic and Translational Research, Department of Surgery, University of Minnesota, Minneapolis, MN.

**P11-16**

Application of International Consensus Diagnostic Criteria (ICDC) for Auto-immune Pancreatitis (AIP) to a US Cohort. A. Raina, A. Slivka, M. Sanders, K. McGrath, K. Fasanella, A. Khalid, J. Chennat, D. Whitcomb, G. Papa-christou, A. Krasinskas, D. Yadav. University of Pittsburgh, PA.

**P11-17**

Systemic Inflammatory Response Syndrome on the 2nd Day of Hospitalization Diagnoses and Predicts the Severity of Post-ERCP Pancreatitis. A Sinha, R Cader, VS Akshintala, VN Khan, MA Khashab, SM Hutfless, AM Lennon, AN Kallou, VK Singh. Division of Gastroenterology, Johns Hopkins Medical Institutions, Baltimore, MD.

**P11-18**

Glycolytic Regulation of the Plasma Membrane Ca<sup>2+</sup> Atpase in Pancreatic Ductal Adenocarcinoma. A. James, A. Chan, O. Erice, A. Siriwardena, J. Bruce. Faculty of Life Sciences, The University of Manchester, Michael Smith Building, Oxford Road, Manchester; Hepatobiliary Surgery Unit, Manchester Royal Infirmary, Manchester, United Kingdom.

**P11-19**

Clinicopathological Significance of Molecular Aberrations in G-protein Coupled Receptor Pathway in Intraductal Papillary Mucinous Neoplasms of the Pancreas. Y. Kuboki, K. Shimizu, K. Shiratori, T. Hatori, M. Yamamoto, N. Shibata, T. Furukawa. Institute for Integrated Medical Sciences, Institute of Gastroenterology, Departments of Pathology and Surgical Pathology, Tokyo Women's Medical University, Tokyo, Japan.

**P11-20**

Proteomic Biomarkers for the Early Detection of Pancreatic Cancer – An Analysis of Pancreatic Duct Fluid. P.D. Kim, K.A. Jones, K. Chen, B.B. Patel, J.P. Hoffman, H. Ehya, K. Devarajan, J.C. Watson, J.L. Tokar, A.T. Yeung. Fox Chase Cancer Center, Philadelphia, PA.

**P11-21**

Evaluation of Peripheral Blood Mitochondrial Function in Experimental and Clinical Acute Pancreatitis. M. Chakraborty, A. Hickey, M. Petrov, J. Macdonald, N. Thompson, D. Sim, A. Phillips, J. Windsor. Department of Surgery, University of Auckland, Auckland, New Zealand; School of Biological Sciences, University of Auckland, Auckland, New Zealand; School of Mathematics, Statistics and Operations Research, Victoria University of Wellington, Wellington, New Zealand.

**P11-22**

Optimal Feeding Strategy after Pancreatoduodenectomy: a Systematic Review. A. Gerritsen, M.G. Besselink, D.J. Gouma, E. Steenhagen, I.H. Borel Rinkes, I.Q. Molenaar. Department of Surgery, University Medical Center Utrecht, Utrecht, The Netherlands; Department of Surgery, Academic Medical Center, Amsterdam, The Netherlands; Department of Diabetics, Julius Center for Health Sciences and Primary Care, University Medical Center Utrecht, The Netherlands.

**P11-23**

Zerumbone, a Phytochemical from Asian Ginger is a Novel Inhibitor of Jak2/Stat3 Inhibits Promigratory Gene Expression, Growth and Migration of Pancreatic Cancer Cells. A. Chakraborty, R. Coffman, J. Jorvig. College of Pharmacy, Roseman University of Health Sciences, Henderson, Nevada.

**P11-24**

Clinicopathological Study of Stage IA Pancreas Cancer: Single Center Experience. A. Miki, N. Sata, Y. Sakuma, M. Taguchi, N. Kasahara, K. Morishima, Y. Kaneda, K. Endo, M. Koizumi, H. Sasanuma, A. Shimizu, M. Hyodo, A.T. Lefor, Y. Yasuda. Department of Surgery, Jichi Medical University, Tochigi, Japan.

**P11-25**

Cathepsin S Mediates Pain Behaviors in Chronic Pancreatitis (CP). C Johnson, F Cattaruzza, S Bondada, F Cevikbas, W Cedron, E Grady, K Kirkwood. Departments of Surgery and Dermatology, University of California, San Francisco, CA.

**P11-26**

Pancreatic Cancer Care Quality Measures in Rural Americans. CJ Chow, EB Habermann, Y Zhu, A Abraham, V Dudeja, SM Vickers, WB Al-Refaie. Department of Surgery, University of Minnesota, Minneapolis, MN; Department of Health Sciences Research, Mayo Clinic, Rochester, MN; Department of Surgery, University of Minnesota and Minneapolis VA, Minneapolis, MN.

**P11-27**

Does Hepatitis C (Hep C) and/or Interferon (IFN) Increase Acute Pancreatitis (AP) Risk? D Whitcomb, M Saul, D Yadav. University of Pittsburgh, PA.

**P11-28**

Experimental Pancreatic Cancer Model for Research on Tumor Development and Its Therapeutic Application. E. Uchida, A. Matsushita, Y. Nakamura, H. Sumiyoshi, T. Aimoto, Z. Naito. Department of Surgery; Department of Pathology, Nippon Medical School, Tokyo, Japan.

**P11-29**

Role of Somatostatin Receptors Scintigraphy in Neuroendocrine Neoplasms Follow-up. E. Merola, N. Cicchese, F. Desideri, E. Iannicelli, F. Panzuto, G. Delle Fave. Department of Digestive and Liver Disease, and Department of Radiology, S. Andrea Hospital, Rome, Italy.

**P11-30**

Obesity Increases Macrophage, T-cell, and CD8+CD11b Cell Infiltration in Pancreata of Mice. E.A. Malecki, K.J. Castellanos, G. Fantuzzi. Department of Medicine, Department of Kinesiology and Nutrition, University of Illinois at Chicago, Chicago, IL.

**P11-31**

The "Obesity Paradox" In Predicted Severe Acute Pancreatitis. E.J.M. van Geenen, T.L. Bollen, M.M. Smits, H.C. van Santvoort, M.G. Besselink, H.G. Gooszen, M.J. Bruno. Department of Gastroenterology, VUMC, Amsterdam; Department of Radiology, St Antonius Hospital, Nieuwegein; Department of Surgery, UMCU, Utrecht; Department of Surgery, UMC St Radboud, Nijmegen; Department of Gastroenterology, Erasmus UMC, Rotterdam.

**P11-32**

Relationship between R0 resection and tumor characteristics versus volume of pancreatoduodenectomy in a nationwide pathology database. G.V. Onete, M.G. Besselink, C.M. Salsbach, C.H. van Eijck, O.R. Busch, D.J. Gouma, R.J. Porte, C.H. Dejong, G.J. Offerhaus, I.Q. Molenaar for the Dutch Pancreatic Cancer Group. Dept. of Surgery, UMC Utrecht, Utrecht, Dept. of Surgery, AMC Amsterdam, Dept. of Surgery, Erasmus MC, Rotterdam, Dept. of Surgery, UMC Groningen, Groningen, Dept. of Surgery, UMC Maastricht, Maastricht, Dept. of Pathology, UMC Utrecht, Utrecht; All: The Netherlands.

**P11-33**

Prognosis of Acute Pancreatitis Development on the Basis of Quality of Life Indicators. A.I. Tomashkevych, G.I. Tomashkevych. Department of Surgery; Department of Internal Medicine Propedeutics, Vinnitsya National Medical University n.a. M.I. Pyrogov, Vinnitsya, Ukraine.



**P11-34**

Pharmacologic Inhibition of PAR2 with the Pepducin P2pal-18S Ameliorates Biliary Acute Pancreatitis. E.S. Michael, A. Kuliopulos, L. Covic, G. Perides, M.L. Steer. Department of Surgery and Molecular Oncology Research Institute, Tufts Medical Center, Boston, MA.

**P11-35**

Apelin's Role in Chronic Pancreatitis. S. Han, G. Gomez, E.W. Englander, G.H. Greeley, Jr. Department of Surgery, University of Texas Medical Branch, Galveston, TX.

**P11-36**

Elevated Expression of EGFL7 in Pancreatitis Induces Acinar-to-ductal Metaplasia of the Pancreas. G-Y Liou, P. Storz. Department of Cancer Biology, Mayo Clinic, Jacksonville, FL, USA.

**P11-37**

Outcome of Patients with IPMN and an Indication for Surgery According with the Sendai Guidelines Who Only Receive a Conservative Management. M. Piciucchi, G. Capurso, M. Del Chiaro, S. Crippa, U. Boggi, R. Pezzilli, M. Falconi, G. Delle Fave. Gastroenterology, Sapienza University of Rome, Surgery, University of Pisa Karolinska Institute of Stockholm Surgery, Sacro Cuore Don Calabria Hospital of Negrar Internal Medicine, S. Orsola-Malpighi Hospital of Bologna.

**P11-38**

A Case of Insulinoma with a Minimal Metastasis in a Focal Hepatic Steatosis. G. Yoshimatsu, K. Nakagawa, N. Sakata, T. Morikawa, H. Yoshida, F. Motoi, T. Naito, K. Miura, Y. Katayose, S. Egawa, M. Unno. Department of Surgery, Division of Hepato-Biliary-Pancreatic Surgery and Division of Integrated Surgery and Oncology, Tohoku University Graduate School of Medicine.

**P11-39**

Testing Cross-species and Cross-organ Stellate Cells as Model System for Pancreatitis Research. J. Paulo, V. Kadiyala, P. Banks, D. Conwell, H. Steen. Center for Pancreatic Disease, Division of Gastroenterology, Hepatology and Endoscopy, Brigham and Women's Hospital and Department of Medicine, Harvard Medical School, Boston, MA; Departments of Pathology, Boston Children's Hospital and Harvard Medical School, Boston, MA.

**P11-40**

miR-15a Inhibits Cell Proliferation of Pancreatic Ductal Adenocarcinoma (PDAC) by Downregulating BMI-1 Expression. S. X. Guo, H. Z. Wang. Institute of Hepatopancreatobiliary Surgery, Southwest Hospital, Third Military Medical University Chongqing, P. R. China.

**P11-41**

Papillary Balloon Dilation in Patients with Bile Duct Stones is not a Cause of Post-ERCP Pancreatitis by Itself; Results of Anterograde and Retrograde Papillary Balloon Dilation. H.J. Choi, D.C. Kim, J.H. Moon, T.H. Lee, S.-W. Cha, Y.D. Cho, S.-H. Park, S.-J. Kim. Digestive Disease Center, Department of Internal Medicine, Soon Chun Hyang University School of Medicine, Bucheon, Korea.

**P11-42**

The Novel Cytokine IL-33 Activates Acinar Cell Inflammatory Pathways and Induces Acute Pancreatic Inflammation. I Samuel, D Williard, E Twait, D Meyerholz, Z Yuan. Dept of Surgery, UI CCOM, Iowa City, IA.

**P11-43**

The Degree of Pancreatic Fibrosis as Measured by Endoscopic Ultrasound-guided Elastography (EUS-E) Predicts Pancreatic Exocrine Insufficiency (PEI) in Chronic Pancreatitis (CP). J.E. Domínguez-Muñoz, M. Castiñeira-Alvariño, M. Luaces-Regueira, J. Lariño-Noia, L. Nieto, J. Iglesias-García. Foundation for Research in Digestive Diseases. Department of Gastroenterology. University Hospital of Santiago de Compostela, Spain.

**P11-44**

Pancreatitis-associated Alterations of Pancreatic Acinar Cells in Response to Tobacco Compared with Alcohol. M. Luaces-Regueira, M. Castiñeira-Alvariño, JE Domínguez-Muñoz. Foundation for Research in Digestive Diseases. Department of Gastroenterology. University Hospital of Santiago de Compostela, Spain.

**P11-45**

Pancreatic Stents with Diclofenac Reduce the Incidence of Post ERCP Pancreatitis in Patients Undergoing Molecular Screening of Pancreatic Juice for Pancreatic Cancer. \*J.A. Nicholson, \*J. Butler, S. Harrison, W. Greenhalf, R. Sutton, C. Halloran, M. Raraty, P. Ghaneh, S. Sarkar, H.L. Smart, J.C. Evans, J.P. Neoptolemos, M Lombard. NIRH Pancreas Biomedical Research Unit and the Department of Gastroenterology, Royal Liverpool University Hospital, Liverpool, UK. \*Joint First Author

**P11-46**

Insulin protects pancreatic acinar cells against fatty acid/ethanol metabolites. J.I.E. Bruce, A. Samad, W Patel, M. Alves-Simoes, J. Whitehouse, P. Mankad, A. Siriwardena. Faculty of Life Sciences, The University of Manchester, Michael Smith Building, Oxford Road, Manchester, United Kingdom; Hepatobiliary Surgery Unit, Manchester Royal Infirmary, Manchester, United Kingdom.

**P11-47**

Basigin Regulates Notch Signaling Pathway in Pancreatic Cancer Cell. JM Kim, Y-J Kim2, DE Jung, SA Kim, SY Song. Department of Internal medicine, Institute of Gastroenterology, Yonsei University College of Medicine, Seoul, Korea; Brain Korea 21 Project for Medical Science, Yonsei University College of Medicine, Seoul, Korea; Severance Biomedical Science Institute, Yonsei University College of Medicine, Seoul, Korea; Division of Gastroenterology, Department of Internal Medicine, Yonsei University College of Medicine, Seoul, Korea

**P11-48**

Oxygen Consumption Predicts Insulin Usage in Patients Undergoing Total Pancreatectomy and Islet Autotransplantation (TP-IAT). J.J. Wilhelm, M.D. Bellin, B.E. Perrault, G.J. Beilman, T.L. Pruett, A.N. Balamurugan, K.K. Papas, B.J. Hering. University of Minnesota, Minneapolis, MN.

**P11-49**

Impact of extended resection and older age on outcome of pancreatoduodenectomy in two Dutch tertiary centers. K.P. Cieslak, M.G. Besselink, A.P. Rijkers, M.S. van Leeuwen, F.P. Vleggaar, M. Bruno, K. Biermann, I.H. Borel Rinkes, C.H. van Eijck, I.Q. Molenaar. Department of Surgery, University Medical Center Utrecht, Utrecht, The Netherlands; Department of Surgery, Erasmus Medical Center, Rotterdam, The Netherlands; Department of Radiology, University Medical Center Utrecht, Utrecht, The Netherlands; Department of Gastroenterology and Hepatology, University Medical Center Utrecht, Utrecht, The Netherlands; Department of Gastroenterology and Hepatology, Erasmus Medical Center, Rotterdam, The Netherlands; 6Department of Pathology, Erasmus Medical Center, Rotterdam, The Netherlands.

**P11-50**

Increased Intra-Abdominal Pressure during Pneumoperitoneum Decreases Pancreatic Perfusion in Pigs: A CT Perfusion Study. K Endo, T Sasaki, N Sata, S Hishikawa, H Sugimoto, Y Yasuda. Department of Surgery, Department of Radiology, Center for Development of Advanced Medical Technology, Jichi Medical University, Tochigi Japan.

**P11-51**

Assessment of Pancreatic Adipocytokine Responses in Severe Acute Pancreatitis (SAP). K. Mohammed, J. Ou, D. Yadav, T. Graham, D. Whitcomb, G. Papachristou, S.J.D. O'Keefe. Division of Gastroenterology, University of Pittsburgh Medical Center, Pittsburgh, PA, USA.

**P11-52**

Meta-analysis of Studies Comparing Laparoscopic and Open Left Pancreatectomy. T. Jin, K. Altaf, J.J. Xiong, W. Huang, M.A. Javed, G. Mai, X.B. Liu, W.M. Hu, R. Sutton, Q. Xia. NIHR Liverpool Pancreas Biomedical Research Unit, Royal Liverpool and Broadgreen University Hospitals NHS Trust and University of Liverpool, Liverpool, UK; Sichuan Provincial Pancreatitis Centre, Department of Integrated Traditional Chinese and Western Medicine, West China Hospital, Sichuan University, Chengdu, China.

**P11-53**

Preoperative Biliary Decompression Preceding Pancreaticoduodenectomy with Plastic or Self-expandable Metallic Stent. L. Kylänpää, C. Haapamäki, H. Seppänen, M. Udd, A. Juuti, J. Halttunen, T. Kiviluoto, J. Siren, H. Mustonen. Department of Gastrointestinal Surgery, Helsinki University Central Hospital, Helsinki, Finland.

**P11-54**

Azathioprine in Autoimmune Pancreatitis: an Italian Experience. L. Frulloni, A. Amodio, G. De Marchi, F. Vitali, T. Tumelero, A. Gabbriellini, L. Benini, I. Vantini. Department of Medicine, University of Verona, Verona, Italy.

**P11-55**

Pharmacological Cholinergic Stimulation as Therapeutic Tool in Experimental Necrotizing Pancreatitis. L Schneider, B Jabrailova, H Soliman, S Hofer, O Strobel, T Hackert, MW Büchler, J Werner. Department of General Surgery and Anesthesiology, University of Heidelberg, Germany.

**PII-56**

PGC-1 $\alpha$  Is a Valuable Tool to Differentiate Inflammation from Infection in Acute Pancreatitis. F. Llimona, T.M. Lima-Salgado, A.I. Moretti, M. Theobaldo, J. Jukemura, M.C.C. Machado, I.T. Velasco, H.P. Souza. Department of Emergency Medicine - LIM51, Department of Gastroenterology, University of São Paulo, Brazil.

**PII-57**

Adenylate Cyclase Type 6 Mediates cAMP Formation and the Function of Pancreatic Exocrine Cells. M.E. Sabbatini, L. D'Alecy, T. Tang, J.A. Williams. Department of Molecular and Integrative Physiology, University of Michigan, Ann Arbor, MI; VA San Diego Healthcare System, San Diego, CA.

**PII-58**

Spleen Preserving Laparoscopic Distal Pancreatectomy. H.G. Lyu, M.A. Cooper, B.H. Edil, N. Rezaee, C.L. Wolfgang, J.L. Cameron, M.A. Makary. Department of Surgery, The Johns Hopkins University School of Medicine, Baltimore, MD.

**PII-59**

Smad4, a Novel Cofactor for Gli1, Mediates its Oncogenic Functions in Pancreatic Cancer Cells. L.L. Almada, M.D. Nye, M.G. Fernandez-Barrena, and M.E. Fernandez-Zapico. Schulze Center for Novel Therapeutics, Mayo Clinic, Rochester, MN, USA.

**PII-60**

Metformin Inhibits the TCA Cycle and Fatty Acid Synthesis in MIAPaCa-2 Pancreatic Cancer Cells. M.J. Cantoria, L.G. Boros, E.J. Meuillet. Dept. of Nutritional Sciences, The University of Arizona, Tucson, AZ; SiDMAP, LLC, Los Angeles, CA; Harbor-UCLA Research and Education Institute, UCLA School of Medicine, Torrance, CA; Arizona Cancer Center, Tucson, AZ.

**PII-61**

Extensive Distal Pancreatectomy (ExDP) is a Novel Surgical Option for Central Pancreatic Cancer

M. Nakamura, T. Ohtsuka, H. Nakashima, K. Tsutsumi, S. Takahata, M. Tanaka. Department of Digestive Surgery, Kawasaki Medical School, Kurashiki, Japan; Department of Surgery and Oncology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan.

**PII-62**

Fluid Therapy in Acute Pancreatitis – Anybody's Guess. M.D. Haydock, A. Mittal, H. Wilms, A. Phillips, M.S. Petrov, J.A. Windsor. Department of Surgery, University of Auckland, Auckland, New Zealand.

**PII-63**

Pancreatic Stellate Cells Promote the Migration of Pancreatic Cancer Cells. J. Lu, S.X. Zhou, M. Siech, H. Habisch, M.G. Bachem. Department of Clinical Chemistry, University of Ulm, Ulm, Germany; Department of general surgery, Ostalbklinikum Aalen, Aalen, Germany.

**P11-64**

Lymph Node Ratio of Pancreatic Cancer has Limited Prognostic Relevance. S.W. Kim, M.J. Kang, and Korean Pancreatic Surgery Club. Department of Surgery, Seoul National University College of Medicine, Seoul, Korea.

**P11-65**

The Prevalence and Severity of Micro Vascular Complications in Patients with Pancreatic Diabetes. M. Yanagimachi, Y. Tando, A. Kon, Y. Matsuhashi, A. Matsumoto, H. Tanaka, E. Sato, S. Chikazawa, T. Nakamura. Department of Endocrinology and Metabolism 2Department of Health Science Hirosaki University School of Medicine, Hirosaki, Japan.

**P11-66**

A Systematic Review of Localization, Surgical Treatment Options and Outcome of Insulinoma. M. Hafezi, L. Fischer, A. Dirlewanger, J. Werner, M.W. Büchler, A. Mehrabi. Department of General, Visceral and Transplantation Surgery, University of Heidelberg.

**P11-67**

Delayed Gastric Emptying after Pylorus-Preserving Pancreaticoduodenectomy versus Pancreaticoduodenectomy in Southern Chinese Population. W. Gao, Z. Xu, Z. Qian, C. Dai, K. Jiang, J. Wu, Q. Li, F. Guo, J. Chen, J. Wei, Z. Lu, Y. Miao, Department of General Surgery, The First Affiliated Hospital of Nanjing Medical University, Nanjing, China.

**P11-68**

Pancreatic Stellate Cells Derived Galectin-1 May Promote Progression of Pancreatic Cancer. K. Jiang, Z. Lu, D. Tang, Z. Yuan, Y. Miao. Department of General Surgery, The First Affiliated Hospital of Nanjing Medical University, Nanjing, China.

**P11-69**

Introduction of Cytochrome-C and Azithromycin Reduces the Incidence of Infectious Complications in Acute Necrotizing Pancreatitis Patients. M.Y. Nychytailo, O.M. Chepliaka. Department of Laparoscopic Surgery and Cholelithiasis, O.O. Shalimov National Institute of Surgery and Transplantology, Kyiv, Ukraine; General Surgery Department, National Pirogov Memorial Medical University, Vinnytsia, Ukraine.

**P11-70**

Pan-ErbB Inhibitor CI 1033 on Pancreatic Cancer Therapy. P. Seshacharyulu, M.P. Ponnusamy, I. Lakshmanan, S.K. Batra. Department of Biochemistry and Molecular Biology, University of Nebraska Medical Center, Omaha, Nebraska, USA.

**P11-71**

Nab-paclitaxel Monotherapy in Refractory Pancreatic Adenocarcinoma. P.F. Peddi, J. Wang, A. Wang-Gillam. Division of Medical Oncology, Department of Medicine, Washington University School of Medicine, Siteman Cancer Center, Saint Louis, Missouri; Division of Oncology, The Second Affiliated Hospital of Zhengzhou University, Zhengzhou, Henan, China.

**P11-72**

Risk of Pancreatic and Extrapancreatic Malignancy in Autoimmune Pancreatitis. P. Hart, R. Dierkhising, R. Law, T. Smyrk, N. Takahashi, S. Chari. Division of Gastroenterology and Hepatology, Mayo Clinic Rochester, MN.

**P11-73**

Urinary Trypsinogen-2 (UT-2) is as Effective as Serum Amylase but not Serum Lipase in the Diagnosis of Acute Pancreatitis (AP). T. Jin, W. Huang, M.A. Javed, J.J. Xiong, K. Jiang, X.N. Yang, P. Xue, R. Sutton, Q. Xia. Sichuan Provincial Pancreatitis Centre, Department of Integrated Traditional Chinese and Western Medicine and Department of HPB Surgery, West China Hospital, Sichuan University, Chengdu, China; NIHR Liverpool Pancreas Biomedical Research Unit, Royal Liverpool and Broadgreen University Hospitals NHS Trust and University of Liverpool, Liverpool, UK.

**P11-74**

Modeling of Metabolic Gene Networks Regulated by KLF-Mediated Epigenetic Pathways Working at the Intersection of Pancreatic Cancer and Diabetes. G. Lomberk, A. Grzenda, A. Mathison, E. Calvo, M. Fernandez Zapico, J. Iovanna, R. Urrutia. Laboratory of Epigenetics and Chromatin Dynamics, Mayo Clinic, Rochester, MN; Molecular Endocrinology and Oncology Research Center, CHUL Research Center, Quebec, Canada; INSERM U.624, Stress Cellulaire, Marseille, France.

**P11-75**

Role of Cathepsin B Gene Single Nucleotide Polymorphisms in Tropical Chronic Pancreatitis in Indian Population. S. Sundaresan, S Yuvaraj, R. Dawra, A.K. Dutta, A.J. Joseph, A.K. Saluja, A. Chacko. Molecular Medicine Unit, Division of Gastrointestinal Sciences, Christian Medical College, Vellore, Tamilnadu, India; Basic & Translational Research, Department of Surgery, University of Minnesota, Minneapolis, Minnesota, USA

**P11-76**

Role of Peritoneal Fibroblasts at Disseminated Sites of Pancreatic Cancer. S. Akagawa, K. Ohuchida, T. Ohtsuka, D. Eguchi, K. Fujiwara, S. Kozono, L. Cui, N. Ikenaga, S. Aishima, K. Mizumoto, M. Tanaka. Department of Surgery and Oncology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan; Department of Anatomic Pathology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan; Kyushu University Hospital Cancer Center, Fukuoka, Japan.

**P11-77**

The Long-Term Survivors After Curative Resection for the Pancreatic Cancer Should be Paid Attention to the Remnant Pancreatic Cancer. S. Suzuki, T. Hatori, A. Kimijima, N. Oshima, T. Furukawa, Y. Kuboki, K. Shimizu, K. Shiratori, M. Yamamoto. Department of Gastroenterological Surgery, Institute for Integrated Medical Sciences, Department of Gastroenterology, Tokyo Women's Medical University, Tokyo, Japan.

**P11-78**

Regulation of Pluripotency Markers by DCLK1 in Pancreatic Cancer. S.M. Sureban, R. May, D. Qu, N. Ali, C.W. Houchen. Department of Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, OK; Veterans Affairs Medical Center, Oklahoma City, OK.

**P11-79**

MUC4 Is a Novel Regulator of EGFR Trafficking in Pancreatic Cancer. S. Joshi, S. Kumar, S. K. Batra. Department of Biochemistry and Molecular Biology, University of Nebraska Medical Center, Omaha NE.

**P11-80**

Studies on the Mechanism of Action of Fronodoside A in Pancreatic Cancer. J. Al Shemali, K. Parekh, S.A. Thomas, D.L. Kelly, X-Z Ding, S. Attoub, S.P. Collin, T.E. Adrian. Department of Physiology, Faculty of Medicine, UAE University, Al Ain, UAE; Eppley Cancer Center, University of Nebraska, Omaha, NE; Department of Pathology, Feinberg School of Medicine, Northwestern University, Chicago, IL; and Coastside BioResources, Stonington ME.

**P11-81**

Inhibition of HIF prolyl hydroxylase enzymes attenuates acute pancreatitis in mice. T. Hank\*, M. Mollenhauer\*, J. Kiss, J. Kirchberg, P. Radhakrishnan, J. Werner, J. Weitz, M. Schneider#, O. Strobel# Department of Surgery, University of Heidelberg, Germany. \*#These authors contributed equally to this work.

**P11-82**

Restoration of 15-Lipoxygenase-2 Expression Inhibits Growth of Pancreatic Cancer Cells: Evidence that Growth Inhibition is Mediated via Enzyme-Independent Activation of p53-Induced Apoptosis. T. Kehl, R. Hennig, F. Bergmann, G. Fürstenberger, P. Krieg. Division of Genome modification and carcinogenesis, DKFZ, Heidelberg, Germany; Katharinenhospital (KH), Stuttgart, Germany; Department of Pathology, University of Heidelberg, Heidelberg, Germany.

**P11-83**

Use of Argon Plasma Coagulation for Successful Extraction of an Impacted Trapezoid Basket in the Pancreatic Duct: A Case Report. T. Purohit, S. Thakkar. Internal Medicine, NYMC, Westchester Medical Center, Valhalla, Gastroenterology, West Penn Allegheny Health System, Pittsburgh, United States.

**P11-84**

Epithelial to Mesenchymal Transition (EMT) in Pancreatic Cancer. T. Fujii, S. Yamada, M. Suenaga, N. Okumura, D. Kobayashi, C. Tanaka, G. Nakayama, H. Sugimoto, M. Koike, S. Nomoto, M. Fujiwara, S. Takeda, Y. Kodera. Department of Gastroenterological Surgery (Surgery II), Nagoya University Graduate School of Medicine, Nagoya, Japan

**P11-85**

Derivation of a Prediction Model for Chronic Pancreatitis. L.S. Lee, P.A. Banks, V. Kadiyala, S.J. Burton, S.L. Suleiman, D.L. Conwell. Center for Pancreatic Disease, Brigham and Women's Hospital, Boston, MA.

**P11-86**

Role of Cathepsin L in Proteolytic Cleavage of SPINK1. W. Halangk, T. Wartmann, C.-O. Behn, A. Günther, M. Sahin-Toth, J. Rosendahl, M. Herms, J. Mayerle, M.M. Lerch, F.U. Weiss. Division of Experimental Surgery, University Magdeburg, Germany; Department of Medicine A, University Greifswald, Germany; Department of Molecular and Cell Biology, Boston University, Boston, USA; 4Department of Gastroenterology, University Leipzig, Germany.

**P11-87**

Diagnostic Utility of Metabolomic-Derived Biomarkers for Pancreatic Cysts. W.G. Park, M. Wu, R. Bowen, M. Zheng, W.L. Fitch, R.K. Pai, D. Wodziak, B.C. Visser, G.A. Poultsides, J.A. Norton, S. Banerjee, A.M. Chen, S. Friedland, P.J. Pasricha, A.W. Lowe, G. Peltz. Department of Medicine, Stanford University, Stanford, CA; Department of Anesthesiology, Stanford University, Stanford, CA; Department of Pathology, Stanford University, Stanford, CA; Department of General Surgery, Stanford University, Stanford, CA.

**P11-88**

Perioperative CA19-9 in Potentially Resectable Pancreatic Cancer: New Perspectives to Individualize Therapy. W. Hartwig, O. Strobel, U. Hinz S. Fritz, T. Hackert C. Roth, M.W. Büchler, J. Werner. Department of General Surgery, University of Heidelberg, Germany.

**P11-89**

Identifying the Function of Small G-protein Rab27A in the Secretion in Mouse Pancreatic Acinar Cells. Y Hou, EL Stuenkel, SA Ernst, JA Williams. Molecular and Integrative Physiology, University of Michigan, Ann Arbor, MI.

**P11-90**

Single or Reduced Port Surgery for Pancreatic Diseases: A Preliminary Experience. Y. Mori, T. Tamura, N. Minagawa, N. Sato, K. Shibao, A. Higure, K. Yamaguchi. Department of Surgery 1, School of Medicine, University of Occupational and Environmental Health Japan, Kitakyushu, Japan.

**P11-91**

Bridging the Gap Between Bench and Bedside: Systematic Review of Treatment in Experimental Acute Pancreatitis. M. A. Javed, K. Altaf, W. Huang, D.N. Criddle, R. Sutton. Liverpool NIHR Pancreas Biomedical Research Unit, Royal Liverpool University Hospital, and Department of Cellular and Molecular Physiology, University of Liverpool, Liverpool, UK.

**P11-92**

Regional Comparison of Cyst Features and Risk of Malignancy in Intraductal Papillary Mucinous Neoplasms (IPMN) of the Pancreas: Meta-analysis. N. Anand, K. Sampath, B. Wu. Department of Gastroenterology, Kaiser Permanente, Los Angeles, CA, USA.

**P11-93**

Pancreatic Duct Decompression Improves Pancreatic Blood Perfusion. Y. Takeyama, T. Yasuda, T. Nakai, T. Murakami. Department of Surgery and Radiology, Kinki University Faculty of Medicine, Osaka-sayama, Osaka Japan.

**P11-94**

Impact of Remnant Volume of Parenchyma after Pancreatic Resection on Postoperative Glucose Tolerance. Y. Inokawa, S. Nomoto, H. Sugimoto, S. Yamada, T. Fujii, S. Takeda, Y. Kodera. Gastroenterological Surgery (Department of Surgery II), Nagoya University Graduate School of Medicine, Nagoya, Japan.



**SATURDAY, NOVEMBER 3**  
**7:00 AM - 2:00 PM POSTER SESSION III**  
**OCEAN TOWER 1**

Posters PIII:1-10 Posters of Distinction

**PIII-1**

Systematic Review and Meta-analysis of Outcomes after Intraoperative Pancreatic Duct Stent Placement during Pancreaticoduodenectomy. J.J. Xiong, K. Altaf, R. Mukherjee, W. Huang, W.M. Hu, A. Li, N.W. Ke, R. Sutton, X.B. Liu. Department of Hepato-Biliary-Pancreatic Surgery, and Sichuan Provincial Pancreatitis Centre, Department of Integrated Traditional and Western Medicine, West China Hospital, Sichuan University, Chengdu, China; NIHR Liverpool Pancreas Biomedical Research Unit, Royal Liverpool and Broadgreen University Hospitals Trust and University of Liverpool, Liverpool, UK.

**PIII-2**

Radiologic Assessment of Pancreatic Disease (RAPiD) Study: Association of Quantitative MRI Features with Pancreas Secretory Function in Suspected Chronic Pancreatitis. N.I. Sainani, P. A. Banks, L.S. Lee, V. Kadiyala, S.L. Suleiman, D.L. Conwell. Center for Pancreatic Disease, Brigham and Women's Hospital, Boston, MA.

**PIII-3**

Rottlerin Promotes Apoptosis and Autophagy in Pancreatic Stellate Cells via AMPK Activation. A. Lugea, P. Javaherizadeh, H. Hui, R.T. Waldron, V.L.W. Go, S.J. Pandol. UCLA Center for Excellence in Pancreatic Diseases and VAGLAHS, Los Angeles, CA.

**PIII-4**

GNAS and KRAS Mutations in Multifocal Intraductal Papillary Mucinous Neoplasms (IPMN) of the Pancreas – Pilot Study. K. Sahara, D. Dias-Santagata, V. Morales-Oyarvide, L.A. Bernardo, A.J. Iafrate, M.B. Pitman, C. Fernandez-del Castillo, M. Mino-Kenudson. Departments of Surgery and Pathology, Massachusetts General Hospital, Harvard Medical School, Boston, USA.

**PIII-5**

Glucose-Regulated Protein 78 (Grp78) Inhibition Causes Cell Death in Pancreatic Cancer Cells. N. Mujumdar, Z. Chen, S. Banerjee, V. Sangwan, S.M. Vickers, A.K. Saluja. Division of Basic and Translational Research, Department of Surgery, University of Minnesota, Minneapolis, Minnesota.

**PIII-6**

Autoactivation of Mouse Trypsinogens and Regulation by Chymotrypsins. B. Németh, M. Sahin-Tóth. Department of Molecular and Cell Biology, Boston University Henry M. Goldman School of Dental Medicine, Boston MA.

**PIII-7**

Performing Functional Assays from a Pancreas Slice to Examine Early Features of Acute Pancreatitis. A.I. Orabi, S. Dolai, T. Liang, S.Z. Husain, H.Y. Gaisano. Department of Pediatrics Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA USA; Department of Medicine University of Toronto, Toronto, ON CA.

**PIII-8**

Blockade of the CCK Receptor Inhibits Progression of Early PanIN Lesions to Pancreatic Cancer in the Pdx1-Cre, LSL/KrasG12D Mouse. G. Matters, T. Cooper, E. Gilius, C. McGovern, J. Liao, J.P. Smith. Departments of Biochemistry & Molecular Biology, Comparative Medicine & Pathology, Medicine, and Public Health Sciences. The Pennsylvania State University, Hershey, PA.

**PIII-9**

Functional Characterization of EZH2 $\beta$ , a Newly Identified Epigenetic Oncogene for Pancreatic Cancer. A. Grzenda, G. Lomberk, P. Svingen, A. Mathison, E. Calvo, J. Iovanna, Y. Xiong, W. Faubion, R. Urrutia. Laboratory of Epigenetics and Chromatin Dynamics, Mayo Clinic, Rochester, MN; Molecular Endocrinology and Oncology Research Center, CHUL Research Center, Quebec, Canada; INSERM U.624, Stress Cellulaire, Marseille, France.

**PIII-10**

Endoscopic Transluminal Necrosectomy in Infected Necrotizing Pancreatitis: A Systematic Review. S van Brunschot, P Fockens, O Bakker, M Besselink, R Voermans, JW Poley, H Gooszen, H van Santvoort for the Dutch Pancreatitis Study Group.

**PIII-11**

A Case Study of Immunological Differences between Type 1 and Type 2 AIP. K Uchida, T Kusuda, H Miyoshi, M Koyabu, K Sumimoto, Y Fukui, T Ikeura, M Shimatani, M Takaoka, M Matsushita, A Nishio, S Sato, A-H Kwon, K Okazaki. Department of Gastroenterology and Hepatology, Department of Surgery, Kansai Medical University, Moriguchi, Japan.

**PIII-12**

A Novel ZIP4-CREB-microRNA-373 Axis Mediates ZIP4-induced Pancreatic Cancer Growth. J. Yang, Y. Zhang, X. Cui, C.D. Logsdon, W.E. Fisher, F.C. Brunicaudi, C. Chen, Q. Yao, M. Li. The Vivian L. Smith Department of Neurosurgery, UT Medical School at Houston; Department of Cancer Biology, UT MD Anderson Cancer Center; Michael E. DeBakey Department of Surgery, Baylor College of Medicine, Houston, TX.

**PIII-13**

Active Trypsin in Zymophagosomes are Involved in the Early Onset of Acute Pancreatitis. H. Gu, F. Bergmann, M.W. Büchler, J. Werner, F. Fortunato. Department of General, Visceral and Transplantation Surgery, Institute of Pathology, University Clinic Heidelberg, Germany.

**PIII-14**

Effects of Ethanol on Pancreatic Developmental Factors. K.J. Mahan Schneider, M.A. Scheer, E.P. Maloney, D.L. Clemens. Nebraska and Western Iowa Veterans Administration Medical Center and Department of Internal Medicine, University of Nebraska Medical Center Omaha, NE.

**PIII-15**

Triptolide Causes Apoptosis in Cancer Cells Derived from Both Primary Tumor and Liver Metastasis in a Spontaneous Pancreatic Cancer Mouse Model. V. Sangwan, R. Chugh, V. Dudeja, Z. Chen, R.K. Dawra, N. Mujumdar, S. Banerjee, T. Mackenzie, T.C. Krosch, S. Vickers, A.K. Saluja. Division of Basic and Translational Research, Department of Surgery, University of Minnesota, Minneapolis, MN, U.S.A.

**PIII-16**

Anti-Tumor Autoantibodies in Patients with Pancreatic Carcinoma and Chronic Pancreatitis. B. Vogt, G. Wolff-Vorbeck, U.T. Hopt, U.A. Wittel. Department of General- and Visceral Surgery, Universitätsklinik Freiburg, Freiburg, Germany.

**PIII-17**

Apigenin Inhibits Pancreatic Stellate Cell Proliferation, Stimulates Apoptosis and Inhibits Fibrosis Associated with Chronic Pancreatitis. X. Wang, H. Chen, K.L. Ives, Y. Cao, J.F. Aronson, T.C. Ko, C. Chao, J. Zhou, MR Hellmich. Depts. of Surgery, Pharmacology/Toxicology and Pathology, UTMB at Galveston TX, and Dept of Surgery UTHSC-Houston TX.

**PIII-18**

Apoptosis and Anergy of T cell Induced by Galectin-1 Derived from Pancreatic Stellate Cells in Pancreatic Cancer. K. Jiang, D. Tang, Z. Yuan, Z. Lu, Y. Miao. Department of General Surgery, The First Affiliated Hospital of Nanjing Medical University, Nanjing, China.

**PIII-19**

Middle Segment Pancreatectomy: Experience from a High-Volume Center in China. K. Jiang, Z. Xu, Z. Qian, C. Dai, J. Wu, W. Gao, Q. Li, F. Guo, J. Chen, J. Wei, Z. Lu, Y. Miao. Department of General Surgery, The First Affiliated Hospital of Nanjing Medical University, Nanjing, China

**P111-20**

Vasohibin 2 Promoted Epithelial Mesenchymal Transition in Pancreatic Cancer Cells. W. Gao, X. Xue, Y. Zhang, M. Tu, Y. Zhu, J. Wei, Z. Lu, Y. Miao. Department of General Surgery, the First Affiliated Hospital of Nanjing Medical University, Nanjing, China.

**P111-21**

BMPR2 Deletion Increases Susceptibility To Chronic Pancreatitis. X Gao, Y Cao, JF Aronson, C Chao, MR Hellmich, TC Ko. Dept. of Surgery, UTH-SC-Houston; UTMB at Galveston, TX.

**P111-22**

Burden and Patterns of Hospital Readmissions for Acute (AP) and Chronic Pancreatitis (CP). D. Yadav, E. Lee, M. O'Connell. University of Pittsburgh, Pittsburgh, PA.

**P111-23**

Caffeine Does Not Protect against L-arginine-induced Acute Pancreatitis in Mice. T. Jin, L. Wen, M.A. Javed, W. Huang, A. Tepikin, D.N. Criddle, Q. Xia, R. Sutton. NIHR Liverpool Pancreas Biomedical Research Unit, Royal Liverpool and Broadgreen University Hospitals NHS Trust and University of Liverpool, Liverpool, UK; Sichuan Provincial Pancreatitis Centre, Dept of Integrated Traditional Chinese and Western Medicine, West China Hospital, Sichuan University, Chengdu, China; Department of Cellular and Molecular Physiology, University of Liverpool, Liverpool, UK.

**P111-24**

Cigarette Smoking is Associated with Endoscopic Ultrasound Features of Chronic Pancreatitis. V. Kadiyala, S.L. Suleiman, S.J. Burton, P.A. Banks, L.S. Lee and D.L. Conwell. Center for Pancreatic Disease, Brigham and Women's Hospital, Boston, MA.

**P111-25**

Clinical Characteristics of Intraductal Papillary Mucinous Neoplasm of the Pancreas (IPMN) Manifesting as Acute Pancreatitis or Acute Recurrent Pancreatitis (AP/ARP). JW Jang, MH Kim, SU Jeong, DH Park, SS Lee, DW Seo, SK Lee, JH Kim. Department of Gastroenterology, Eulji University College of Medicine, Eulji University Hospital, Daejeon, Korea; Department of Gastroenterology; Department of Radiology and Research Institute of Radiology, University of Ulsan College of Medicine, Asan Medical Center, Seoul, Korea.

**P111-26**

Commensal Flora as Possible Pathogens of Autoimmune Pancreatitis. I Haruta, N Yanagisawa, K Shimizu, Y Abe, M Omori-Miyake, J Yagi, K Shiratori. Microbiology and Immunology, Gastroenterology and Medicine, Tokyo Women's Medical University, Tokyo, Japan.

**P111-27**

Cooperativity of Oncogenic K-ras and Silenced p16 in Human Pancreatic Tumorigenesis. Z. Chang, Z. Li, X.Y. Wang, R.Y. Zhao, J.H. Ling, Y.H. Yuan, H. Wang, D. Chatterjee, J.B. Fleming, J.W. Freeman, D. Yu, P.J. Chiao. Departments of 1Molecular and Cellular Oncology, and Pathology, and Surgical Oncology The University of Texas MD Anderson Cancer Center; The University of Texas Graduate School of Biomedical Sciences at Houston; Department of Medicine, The University of Texas Health Science Center at San Antonio.

**PIII-28**

Covered Self-Expandable Metal Stent Deployment Promise Safe Neoadjuvant Chemotherapy in Patients with Borderline Resectable Pancreatic Head Cancer. K. Kubota, T. Sato, S. Watanabe, K. Hosono, A. Nakajima. Division of Gastroenterology, Yokohama City University, Graduate School of Medicine, Yokohama, Japan.

**PIII-29**

Cytokines as Predictors of Organ Failure in Severe Acute Pancreatitis. A. Nieminen, M. Maksimow, P. Mentula, L. Kyhälä, L. Kylänpää, P. Puolakkainen, E. Kempainen, H. Repo, M. Salmi. Department of Surgery, Helsinki University Central Hospital, Finland; Department of Medical Biochemistry and Genetics, University of Turku, Finland; Department of Bacteriology and Immunology, University of Helsinki, Finland.

**PIII-30**

D52 Regulates Secretion from the Minor Regulated Pathway (MRP) to Maintain Acinar Polarity. SW Messenger, DDH Thomas, FS Gorelick, GE Groblewski. Department of Nutritional Sciences, University of Wisconsin, Madison, WI, Department of Internal Medicine, Yale University New Haven, CT

**PIII-31**

Descriptive Statistics for the Endoscopic Pancreatic Function Test: Defining Normal. S.L. Suleiman, V. Kadiyala, S.J. Burton, L.S. Lee, P.A. Banks, D.L. Conwell. Center for Pancreatic Disease, Brigham and Women's Hospital, Boston, MA.

**PIII-32**

Development of Nonalcoholic Fatty Liver Disease after Pancreaticoduodenectomy. Y Toyoki, K Ishido, D Kudo, N Kimura, T Wakiya, T Matsumura, S Narumi, K Hakamada. Department of Gastroenterological Surgery, Hiroaki University Graduate School of Medicine

**PIII-33**

Does Acute Pancreatitis Conditioned Mesenteric Lymph Inhibit Or Promote Growth Of Translocating Bacteria? B. Loveday, S. Swift, J. Windsor, A. Phillips. Department of Surgery; Department of Molecular Medicine & Pathology, School of Biological Sciences, University of Auckland, New Zealand.

**PIII-34**

Biochemical Nutritional Assessment for the Diagnosis of Pancreatic Exocrine Insufficiency (PEI) in Chronic Pancreatitis. J.E. Domínguez-Muñoz, B. Lindkvist, L. Nieto-García, M. Luaces-Regueira, M. Castiñeira-Alvariño, J. Iglesias-García. Institute of Medicine, Sahlgrenska Academy, University of Gothenburg, Sweden; Gastroenterology Department, University Hospital of Santiago de Compostela, Santiago de Compostela, Spain; Foundation for Research in Digestive Diseases (FIENAD).

**PIII-35**

Effect of Tobacco in the Proliferation and Migration of Pancreatic Stellate Cells (PSC). M. Castiñeira-Alvariño, M. Luaces-Regueira, J.E. Domínguez-Muñoz. Foundation for Research in Digestive Diseases, Santiago de Compostela, Spain, University Hospital of Santiago, Gastroenterology, Santiago de Compostela, Spain.

**PIII-36**

Effect of Adjuvant Treatment on Recurrence of Intraductal Papillary Mucinous Neoplasm with an Associated Invasive Carcinoma after Operation. Y.T. Kim, W.H. Paik, B.J. Song, J.K. Ryu, Y.B. Yoon, J.Y. Jang, S.W. Kim. Department of Internal Medicine and Liver Research Institute, Seoul National University College of Medicine, Seoul, Korea, Department of Surgery, Seoul National University College of Medicine, Seoul, Korea.

**PIII-37**

Migratory Activity of CD105+ Pancreatic Cancer Cells Is Strongly Enhanced By Pancreatic Stellate Cells. K. Fujiwara, K. Ohuchida, K. Shindo, Shin Akagawa, Daiki Eguchi, S. Kozono, N. Ikenaga, L. Cui, T. Ohtsuka, S. Takahata, S. Aishima, K. Mizumoto, M. Tanaka. Departments of Surgery and Oncology; Department of Anatomic Pathology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan.

**PIII-38**

Epidemiology of Pancreatic Mucinous Cystadenocarcinoma. S Ngamruengphong, J Horsley-Silva, T Patel. Division of Gastroenterology and Hepatology, Mayo Clinic Jacksonville, FL.

**PIII-39**

EZH2 Silenced Tumor Suppressor miR-218 by Inducing Heterochromatin Formation in Pancreatic Cancer. CH Li, K-F To, Z Xiao, J H-M Tong, Y-X Zhu, T Xia, PBS Lai, SL Chan, VE Marquez, Y Chen. School of Biomedical Sciences, Faculty of Medicine, The Chinese University of Hong Kong, Shatin, Hong Kong; Department of Anatomical and Cellular Pathology, Prince of Wales Hospital, The Chinese University of Hong Kong, Shatin, Hong Kong; Department of Surgery, Prince of Wales Hospital, The Chinese University of Hong Kong, Shatin, Hong Kong; Department of Clinical Oncology, Prince of Wales Hospital, The Chinese University of Hong Kong, Shatin, Hong Kong; Chemical Biology Laboratory, Center for Cancer Research, National Cancer Institute, Frederick, MD, United States of America; Shenzhen Research Institute, The Chinese University of Hong Kong, Shenzhen, China.

**PIII-40**

Frequency and Characterization of Benign Lesions in Pancreatic Specimens of Patients Operated for the Suspicion of Pancreatic Cancer. F. Vitali, T. Hansen, R. Kiesslich, S. Heinrich, P. Mildenerger, A. Kumar, I. Vantini, L. Frulloni. Department of Medicine, University of Verona, Verona, Italy; Institute of Pathology, Department of Internal Medicine, Department Surgery and Department of Radiology, University of Mainz, Mainz, Germany.

**PIII-41**

Functional Loss to Anatomical Loss of  $\beta$  cells in Chronic Pancreatitis: Is it a Continuum? R Talukdar, M Sasikala, G Radhika, P Pavan Kumar, GV Rao, R Pradeep, DN Reddy. Asian Institute of Gastroenterology, Hyderabad, India.

**PIII-42**

Glucocorticoids Augment Resistance to Gemcitabine in Pancreatic Cancer Cells. J.J. Soucek, S. Chakraborty, S. Rachagani, R.J. Hauke, S.K. Batra. Eppley Institute for Research in Cancer, Department of Biochemistry and Molecular Biology, and Department of Internal Medicine, University of Nebraska Medical Center; and Nebraska Cancer Specialists; Omaha, NE.

**PIII-43**

Hospitalizations for Chronic Pancreatitis among Adults and Children in the United States: a Silent Epidemic? S. Hutfless, V.K. Singh, B.U. Wu, V. Akshintala, A.N. Kalloo, M.A. Makary. Division of Gastroenterology & Hepatology, Johns Hopkins University, Department of Gastroenterology, Kaiser Permanente Southern California, Department of Surgery, Johns Hopkins University.

**PIII-44**

Human Pancreatic Fibroblasts Promote Epithelial to Mesenchymal Transition (EMT) in Pancreatic Cancer Cells through ZEB Dependent and Independent Signaling. EC. Vaquero, L. Visa, E. Samper, M. Rickmann, I. Sangrador, A. Postigo, E. Sánchez, J. Balsells, L. Fernández-Cruz, X. Molero. Department of Gastroenterology, CIBEREHD, Hospital Clínic, Barcelona; Group of Transcriptional Regulation, Department of Oncology and Hematology, IDIBAPS, Barcelona; Department of Surgery, Hospital Universitari Vall d'Hebron, Barcelona; Department of Surgery, Hospital Clínic, Barcelona; Department of Gastroenterology, Hospital Universitari Vall d'Hebron, Barcelona.

**PIII-45**

Improved Long Term Survival after Extended Pancreatic Cancer Operations: A Single-Institution Experience. H Seppänen, A Juuti, H Mustonen, C Haapamäki, S Nordling, M Carpelan-Holmström, J Sirén, C Haglund, T Kiviluoto. Department of Surgery, Department of Pathology, Helsinki University Central Hospital Helsinki, Finland.

**PIII-46**

In Vitro Assessment of a Superparamagnetic Iron Oxide Nanoparticle for Targeting Pancreatic Cancer Cells. P. Sykes, C. Olariu, E. Hasan, D. Lydon, C. Rubbi, J. Neoptolemos, E. Costello, M. Rosseinsky, C Halloran. Department of Molecular and Clinical Cancer Medicine, University of Liverpool; 2Department of Chemistry, University of Liverpool.

**PIII-47**

Increased Short and Medium Term Risk of Pancreatic Adenocarcinoma following Acute Pancreatitis. B. Agarwal, F. Kanwal, S. Munigala, H. Xian, T. Chrusciel, J. Scherrer. Division of Gastroenterology and Hepatology, Saint Louis University School of Medicine, and Research Service, Clinical Research and Epidemiology Workgroup, Veterans Affairs Medical Center, St. Louis, MO.

**PIII-48**

Increased Vacuolar-ATPase (v-ATPase) Expression is Associated with Advanced PanIN Stage in Mice. H Einwachter, AK Gattu, FS Gorelick, R Schmid, C Chung. Section of Digestive Diseases, Department of Medicine, Yale University School of Medicine, VA CT Healthcare System, Technical University of Munich, Munich, Germany.

**PIII-49**

Infectivity Selective Oncolytic Adenovirus for Pancreatic Cancer by Redesigning the AB-loop via Adenovirus Library Screening. Y Miura, J Davydova, M Yamamoto. Department of Surgery, University of Minnesota, Minneapolis, MN.

**PIII-50**

Involvement of the RNA-binding Proteins Sam68 and SRSF1 in the Acquisition of the Resistance to Gemcitabine in Pancreatic Adenocarcinoma Cells. S. Calabretta, I. Passacantilli, L. Adesso, R. Geremia, G. Capurso, G. Delle Fave, C. Sette. Medical surgical department of technobiomedical clinical sciences and translational medicine, University of Rome La Sapienza, Italy, Department of Public Health and Cell Biology, University of Rome Tor Vergata, Italy.

**PIII-51**

Is High-Dose Nafamostat Mesilate Effective For The Prevention Of Post-ERCP Pancreatitis, Especially In High-Risk Patients? DH Kang, CW Choi, SB Park, HW Kim, JH Park, MD Kim. Department of Internal Medicine, Pusan National University Yangsan Hospital.

**PIII-52**

Islet Isolation Experience from Cystic Fibrosis Pancreatic Lipomatosis (PL) Case Intended for Islet Auto-Transplantation (IAT). M. Tiwari, G.J. Beilman, L. Gopalakrishnan, S.M. Soltani, M.D. Bellin, J.J. Wilhelm, T.D. O'Brien, D.E.R. Sutherland, B.J. Hering, A.N. Balamurugan. Schulze Diabetes Institute, University of Minnesota, Minneapolis.

**PIII-53**

Laparoscopic Whipple: An Early Experience. M.A. Makary, H.G. Lyu\*, M.A. Cooper\*, N. Rezaee\*, C.L. Wolfgang, J.L. Cameron, B.H. Edil. Department of Surgery, The Johns Hopkins University School of Medicine, Baltimore, MD.

**PIII-54**

L-glutamate Secretion in the Pancreatic Juice Involves Transport and Metabolism of Neutral Amino Acids in Exocrine Pancreas and Is Influenced by the Content of Protein in the Diet. S. Araya, C. Lutz, L. Mariotta, F. Núñez-Villena, K. Huggel, B. Herzog, F. Verrey, T.R. Graf, R. Graf, S.M.R. Camargo. Institute of Physiology and ZIHP, University of Zurich, Zurich, Switzerland; Department of Surgery, University Hospital Zurich, Zurich, Switzerland.



**PIII-55**

Autophagy Induced in Pancreatic Ductal Adenocarcinoma in Human Corresponds to the In Vitro Autophagic Status of Pancreatic Cancer Cells (PANC-1). D Hashimoto, M Bläuer, J Sand, M Hirota, J Laukkarinen. Tampere Pancreas Laboratory and Department of Gastroenterology and Alimentary Tract Surgery, Tampere University Hospital, Tampere, Finland; Department of Gastroenterological Surgery, Kumamoto University Graduate School of Medical Sciences, Kumamoto, Japan.

**PIII-56**

The Role of Autophagy in Pancreatic Cancer Cells (PANC-1) Treated with Anticancer Drugs and Inhibitors of Autophagy. D Hashimoto, M Bläuer, J Sand, M Hirota, J Laukkarinen. Tampere Pancreas Laboratory and Department of Gastroenterology and Alimentary Tract Surgery, Tampere University Hospital, Tampere, Finland; Department of Gastroenterological Surgery, Kumamoto University Graduate School of Medical Sciences, Kumamoto, Japan .

**PIII-57**

Molecular Architecture of the Pancreatic Zymogen Granule-Protein Copy Number Determination. P. Skallos, G. Hubbs, J. Fang, P. Stemmer, B. Jena, X. Chen. Wayne State University, Detroit, MI.

**PIII-58**

Triptolide Causes Global Changes in the MicroRNAome and Transcriptome of Pancreatic Cancer Cells. T.N. MacKenzie, A. Sarver, Z. Chen, N. Mujumdar, S. Banerjee, V. Sangwan, V. Dudeja, S. Subramanian, S. Vickers, A.K. Saluja. Department of Pharmacology; Department of Surgery; Masonic Cancer Center, University of Minnesota, Minneapolis, MN.

**PIII-59**

MUC1 Modulates the Invasive and Metastatic Properties of Pancreatic Cancer Cells. X. Liu, Y. Wen, M. A. Hollingsworth. Eppley Institute for Research in Cancer and Allied Diseases, University of Nebraska Medical Center, Omaha, NE.

**PIII-60**

Palliative Pancreatoduodenectomy in Treatment of Pancreatic Cancer. O. Dronov, Ye. Kryuchyna. Department of General Surgery N 1 National Medical University named O.O. Bogomoletz, Kyiv, Ukraine.

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Pancreatic Cancer Metastasis: Mutual Regulation of Cancer- and Stroma-derived Matrix Metalloproteinases. H. Habisch, S. Zhou, M. Siech, T. Seufferlein, M. Bachem. Department of Clinical Chemistry, University Hospital Ulm, Ulm, Germany; Department of General and Vascular Surgery, Ostalb-Klinikum Aalen, Aalen, Germany; Department of Internal Medicine, University Hospital Ulm, Ulm, Germany.

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Pancreatic Cyst Fluid Biomarkers Guide Clinical Recommendation for Surgical Management. A. Larson, R. Kwon, E. Zolotarevsky, J. Scheiman, M. Anderson. Department of Internal Medicine and Division of Gastroenterology, University of Michigan, Ann Arbor, MI; Department of Medicine, Sloan-Kettering Cancer Center, New York, NY.

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Pathomorphological Changes in Acute Necrotizing Pancreatitis. S. Zemskov, I. Kovalska, O. Dronov, E. Deneka, M. Zemskova. Bogomolets National Medical University, Department of General Surgery N1, Kyiv, Ukraine; Kyiv City Hospital N10, Department of Pathology, Kyiv, Ukraine; Kyiv Center for Liver, Bile Ducts and Pancreas Surgery named after V.S. Zemskov, Kyiv, Ukraine.

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PGE2 Regulates Pancreatic Stellate Cell Activity Via The EP4 Receptor. C Charo, V Holla, T Arumugam, RF Hwang, P Yang, RN Dubois, DG Menter, CD Logsdon, V Ramachandran. Depts of Cancer Biology and Surgical Oncology, Gastrointestinal Oncology, Medical Oncology, UT MD Anderson Cancer Center, Houston, TX.

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Plectin-1 is an Ideal Diagnostic Marker for Biopsies of Primary and Metastatic PDAC. S.E. Steigen, U.T. Hopt, T. Keck, D. Bausch. Diagnostic clinic – Clinical pathology, University Hospital of North Norway, Norway; Department of General and Visceral Surgery, University of Freiburg, Germany.

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Polymorphisms of CFTR Gene in Japanese Patients with Chronic Pancreatitis. S. Kondo, K. Fujiki, M. Nakakuki, A. Yamamoto, S. Ko, M. Kitagawa, S. Naruse, H. Ishiguro. Department of Human Nutrition, Nagoya University Graduate School of Medicine, Nagoya, Japan; Department of Nutrition, Nagoya University of Arts and Sciences, Nisshin, Japan; Department of Systems Medicine, School of Medicine, Keio University, Tokyo, Japan; Miyoshi Municipal Hospital, Miyoshi, Japan.

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Preliminary Result of Enucleation for Cystic Lesion of Pancreas Preserving Maximal Pancreas Function after Operation. J.S. Park, J.K. Kim, H.J. Lee, D.S. Yoon. Department of Surgery, Gangnam Severance Hospital, Yonsei University Health System, Seoul, Korea.

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Prognostic Value of Procalcitonin, CRP, BISAP, Ranson's, APACHE-II and CTSI Scores according to the Various Etiologies of Acute Pancreatitis. J.S. Choi, J.H. Cho, T.J. Jeon, H.M. Kim, Y.J. Kim, K.J. Han, H.G. Cho, S.Y. Song. Division of Gastroenterology, Department of Internal Medicine, Myongji Hospital, Kwandong University College of Medicine, Goyang, Korea, Republic of; Division of Gastroenterology, Department of Internal Medicine, Sanggye Paik Hospital, Inje University College of Medicine, Seoul, Korea, Republic of; Division of Gastroenterology, Department of Internal Medicine, Yonsei University College of Medicine, Seoul, Korea, Republic of.

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Rab Disordering in Pancreatitis. O.A. Mareninova, I. Yakubov, J. Yuan, A. Lugea, I. Gukovsky, A.S. Gukovskaya. VA Greater Los Angeles Healthcare System, University of California Los Angeles & Southern California Research Center for ALPD and Cirrhosis, Los Angeles, CA.

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Readmission after Pancreatic Resection is not an Appropriate Measure of Quality. I. Gawlas\*, M. Sethi\*, M. Winner, I. Epelboym, J.A. Lee, B.A. Schrope, J.A. Chabot, J.D. Allendorf. Department of Surgery, Columbia University Medical Center, New York, NY. \*these authors contributed equally to this work

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Retrospective Subgroup Analysis to Assess the Efficacy and Safety of Pancrelipase/Pancreatin (CREON®) in Patients with Pancreatic Exocrine Insufficiency (PEI) and a Medical History of Diabetes Mellitus. A. Bodhani, D. Whitcomb, K. Beckmann, M. Fuldeore, S. Sander, P. Pollack. Abbott, Abbott Park, IL, USA, University of Pittsburgh and University of Pittsburgh Medical Center, USA, Abbott, Hannover, Germany.

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Role of ERCP in Cytological Confirmation for Possibly Resectable Pancreatic Ductal Adenocarcinoma (PDAC) In the Era of EUS-FNA. T. Ohtsuka, N. Ideno, T. Aso, Y. Nagayoshi, H. Kono, K. Tamura, J. Ueda, S. Takahata, K.S. Aishima, T. Ito, A. Asou, K. Mizumoto, M. Tanaka. Departments of Surgery and Oncology, Anatomic Pathology, and Medicine and Bioregulatory Science, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan.

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Salinomycin is Effective against Pancreatic Cancer Stem Cells and Targets Metastasis-promoting Fascin. B. Aykut, M. Schenk, N. Giese, S. Kleber, A. Martin-Villalba, T. Welsch. Department of General, Visceral and Transplant Surgery, University of Heidelberg, Germany; Molecular Neurobiology (A290), German Cancer Research Center, Heidelberg, Germany.

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Senescence of Rat Pancreatic Stellate Cells Is Mediated by CDKN1A and Contributes to Termination of Wound Healing. B. Fitzner, S. Müller, M. Walther, A. Lange, H. Nizze, R. Jaster. Department of Medicine II, Division of Gastroenterology; Institute of Pathology, University Medicine Rostock, Germany.

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Stent-related Complications of Endotherapy in the Treatment of Chronic Pancreatitis Pain and their relationship to the Duration of Stent Placement. J. Sadiq, M. Jafri<sup>1</sup>, D. Lee, F. Gress.; Dept. of Gastroenterology, SUNY Downstate, Brooklyn, NY.

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The Development of Fibrosis in a Novel Model of Chronic Pancreatitis Is Mediated by Complement Factor C5. M. Sendler, G. Beyer, V. Kauschke, T. Wartmann, F. Ulrich Weiss, W. Halangk, M.M. Lerch, J. Mayerle. Department of Medicine A, University Medicine, Ernst-Moritz-Arndt-University Greifswald, Germany, Division of Experimental Surgery, Otto-von-Guericke-University Magdeburg, Germany.

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The E3 Ubiquitin Ligase CBL is Associated with Survival and Mediates Gemcitabine Resistance in Human Pancreatic Cancer. B. Kadera, N. Wu, L. Li, L. Tran, H. Wu, T. Donahue. Depts. of Surgery, Mol & Med Pharm, UCLA, Los Angeles, CA.

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The Effect of Intestinal Permeability and Endotoxemia on the Prognosis of Acute Pancreatitis. WK Jeon, YY Koh, YC Cho, HJ Kim. Department of Internal Medicine, Kangbuk Samsung Hospital, Sungkyunkwan University School of Medicine, Seoul, Korea.

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The Impact of Diabetes on Acute Pancreatitis. M. Shafiei, B. Depczynski, H.D. Russell, M.V. Apte, J.S. Wilson, J. Descallar. Endocrinology, Liverpool Hospital, Liverpool, NSW, Australia; Endocrinology, Prince of Wales Hospital, Randwick, NSW, Australia; School of Medical Sciences, University of New South Wales, Randwick, NSW, Australia; Gastroenterology, Liverpool Hospital, Liverpool, NSW, Australia; Ingham Institute for Applied Medical Research, Liverpool, NSW, Australia.

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Does Duodenum-preserving Pancreatectomy Prevent Severe Postoperative Fatty Liver? N Ooshima, T Hatori, S Suzuki, A Kimijima, T Furukawa, K Shimizu, M Taniai, K Tokushige, E Hashimoto, K Shiratori, M Yamamoto. Department of Gastroenterological Surgery, Institute for Integrated Medical Sciences, Department of Gastroenterology, Tokyo Women's Medical University, Tokyo, Japan.

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The Role of Surgery in Renal Cell Carcinoma Metastatic to the Pancreas: a Single-Institution Experience. E. Morandi, M. Castoldi, D.A. Merlini, L. Turati, M. Milanesi. Department of General Surgery, Rho Hospital, Rho (MI), Italy.

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Trends in Laparoscopic Pancreaticoduodenectomy. S. Jegatheeswaran, A.K. Siriwardena. Hepato-Pancreato-Biliary Surgery Unit, Manchester Royal Infirmary, Manchester UK.

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Variation in Workup for Patients Undergoing Resection for Solid Tumors of the Pancreas. N. Newman, A. Ibrahim, M. Cooper, E. Lamm, J. Herman, V. Singh, C. Wolfgang, T. Pawlik, J. Cameron, M. Makary. Department of Surgery, Johns Hopkins Hospital, Baltimore, MD.

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Triptolide Induces Cell Death in Pancreatic Cancer through Glycosylation of the Transcription Factor Sp1. S. Banerjee, V. Sangwan, O. McGinn, N. Mujumdar, V Dudeja, Z. Chen, T. Mackenzie, S.M Vickers, A. Saluja. Division of Basic and Translational Research, Department of Surgery, University of Minnesota, Minneapolis, MN.

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Acute Pancreatitis Linked to Fasting – a Case of “Ramadan Syndrome”. D. Patel, T. Kaur, K. Saleem, A. Ngwe, A. P. Oppenheimer. Department of Internal Medicine, Richmond University Medical Center, Staten Island N.Y., American University of Antigua.

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Urinary Trypsinogen Activation Peptide (TAP) and Carboxypeptidase B Activation Peptide (CABAP) in Severity Stratification of Acute Pancreatitis: a Meta-analysis. T. Jin, K. Altaf, J.J. Xiong, L. Wen, M.A. Javed, X.N. Yang, P. Xue, W. Huang, R. Sutton, Q. Xia. Sichuan Provincial Pancreatitis Centre, Department of Integrated Traditional Chinese and Western Medicine, and Department of Hepato-Biliary-Pancreatic Surgery, West China Hospital, Sichuan University, Chengdu, China; NIHR Liverpool Pancreas Biomedical Research Unit, Royal Liverpool and Broadgreen University Hospitals Trust and University of Liverpool, Liverpool, UK.

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Usefulness of the BISAP in the Early Prediction of Severity and Mortality in Acute Pancreatitis. H.K. Kim, Y.S. Cho, E.C. Jang, J.O. Yeom, S.Y. Kim, J.Y. Yu, Y.J. Kim, K.R. Do, S.S. Kim, H.S. Chae. Division of Gastroenterology/Department of Internal Medicine, The Catholic University of Korea College of Medicine and Uijeongbu St. Mary's Hospital, Uijeongbu, South Korea.

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Utility of Drain Fluid Amylase Measurement on the Third Postoperative Day after Pancreaticoduodenectomy. M. Araki, T. Yasuda, Y. Yoshioka, Y. Nakata, H. Ishikawa, M. Yamazaki, T. Nakai, Y. Takeyama. Department of Surgery, Kinki University Faculty of Medicine, Osaka-sayama, Japan.

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Molecular Mechanism Underlying Acute Pancreatitis-induced Autophagy. M.I. Molejon, A. Ropolo, V. Boggio, G. Valenzuela, T. Rittaco, M.I. Vaccaro. Department of Pathophysiology, School of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina.

